SEQUENCE LISTING

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Sun, Yongming
Liu, Chenghua

<120> Compositions and Methods Relating to Prostate Specific Genes and Proteins

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<150> 60/252,186
<151> 2000-11-21

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aatatgatta tttattatac ctagtaggat aatgcagtta gtgtttctca atctactaac 300

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taatagatag aatagggagt ggtagaaagt gagcatcctt gtactatggt ctcattcttc 540

agaggcaaat tctttcagct tgttcgtcca ttgttctatg gatattatct gtggatttcg 600

ttataggggt ggccataata tatatagttg atgtctgttc cttctatgca tggttatgtg 660

tagtcattgg ttatcaagaa gggattttga attttagtca gagttttgtt ctgaatctat 720

tgaaatgatc atacggcttt tgtcattaat tctttgcata tgaatgtata accttattta 780

ttagcatatt tcaagtatct ggcatcctga aa 812

<210> 20
<211> 615
<212> DNA
<213> Homo sapien

<400> 20
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ggaaaccagc cacttctcca aggagcccca attcctttca ctgggaattg gccctttcag 180

attagctctg tgccctctga catggcttga aagggctcct actggctaat atgagacccc 240

aagaatatgc tcaaatgaaa tggaacacca agtatgttta aattcatgag ttatattaat 300

actaaaaaga tcctctttct tttggagact ggtagacact aactcatgtt ctgaaaatct 360

aaggaaagaa taaagcagtc aaactacctt tcctatacag aatgcatttc agaataatca 420

actagttgaa gaggccaagt tctttataga agaatcacag gtaataaata atagaactga 480

aggcaatgac cgaattagaa aatgtcctat ttttgtgaca atttgaggat aactgaacac 540

aaactaatta gtggtgacac ttaagggact ggcggtaatt tttgttaggc gtgataatgg 600

gtactgccgg gcggg 615

<210> 21
<211> 825
<212> DNA
<213> Homo sapien

<400> 21
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taaattaagc catggtaaat gttacaaggt aaagctttga aggcatacaa aatggatgca 120

ggaatgccca gcaggaacag atctaggtta tgggatttca aaaacaaaac acatcatcta 180

aactaactta aaaaattccc ggctaaaatt ggaaaccagc cacttctcca aggagcccca 360

attcctttca ctgggaattg gccctttcag attagctctg tgccctctga catggcttga 420

aagggctcct actggctaat atgagacccc aagaatatgc tcaaatgaaa tggaacacca 480

agtatgttta aattcatgag ttatattaat actaaaaaga tcctctttct tttggagact 540

ggtagacact aactcatgtt ctgaaaatct aaggaaagaa taaagcagtc aaactacctt 600

tcctatacag aatgcatttc agaataatca actagttgaa gaggccaagt tctttataga 660

agaatcacag gtaataaata atagaactga aggcaatgac cgaattagaa aatgtcctat 720

ttttgtgaca atttgaggat aactgaacac aaactaatta gtggtgacac ttaagggact 780

ggcggtaatt tttgttaggc gtgataatgg gtactgccgg gcggg 825

<210> 22
<211> 637
<212> DNA
<213> Homo sapien

<400> 22
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ctcaattaaa agtaaatgga ataataaatg caaaataaga gatttcaccg gagaacaagc 180

tctgcacaaa agttcacaat tgtgcccact ttgtaactaa ttgagaatgt gaatttagac 240

aataatgtat agagttaaca acaattaaac ctcgtaataa gtaagtgtgg tgtgttttcc 300

aacaactgtg aataaccttg ggaagtaatt aagtttctgt ggtaaataat gaaagaaagt 360

gttaattgaa ggagaaaaaa gtgcaagtca cacaattgtg gttttgagaa ataacgtgag 420

ggtttcacaa ttcacaagaa gaatacacgg tgtttttttt ttgctattgt tatttgttgt 480

gttttactgt tggagacttt ctcaaaaacc aatgttaaat aatgcaatgg tcagttcttc 540

aatgaagaga tgcagtaaac cgtattccca agtgttttga ccacttttt tttctttttt 600

actttaagac gatttctcag aactgttgtt ctcttgt 637

<210> 23
<211> 817
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

<400> 23
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acacaaatta ttggttttcc aggcaatttt aaccaagata atacaaaaaa aaaagatcag 120

cctttcgaac aaatggtgcc tgcctatttg gccatccatg tgtaaaacat gaacatcaat 180

ccatatctca caccatattt aaaagttcac tggaaattga tcagagacct gaatttaaaa 240

ttaaaattat aatgtcatta taggaagaaa atacagaaaa aacgttgcga tttggggtta 300

ggtgaagatt tcttaggaag gacacaaaaa gcatgattca taaaggaaga acgttaataa 360

attagatttc agcaaaattt aaaaattctg ctcttcatat aacattgtga aaaaaatgaa 420

aggacaagcc caaaacaggc agaaaaaatg tttggaaaat agcctacttc cagaaaagac 480

tggtaaccag aatgantata ccagaactgt ttaaaacgtc aatattaaag aaagacaaac 540

caacttaaaa gtcgggcaaa aagattctga agagatactt catcccaaga gaatacagat 600

cgcactatgg tcaagaaaca cacatgcaac aataagtctc aatattatag tacagacgga 660

gaacatgtaa atataaaagc acaatcgaga taccatctac aagctacaca ccgtgttatg 720

atggcatcta acaacaaatc tgacaatgta agatgcttgt gaggatgctg cagtaactga 780

aattctcatg catttactgg tgggagtgca aaatggt 817

<210> 24
<211> 218
<212> DNA
<213> Homo sapien

<400> 24
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atctgctgaa tgtgacaggg aacaaaaaca catacaacgt gctgactggc ctcacttttt 120

atttaagatc aaaatcgtta agtggtccct cactactgct agcaatcttg acatattttc 180

ctaatccggt ccattcttcc atcctcccag gtacctgc 218

<210> 25
<211> 823
<212> DNA
<213> Homo sapien

<400> 25
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ttcgagcggc gcccgggcag gtcaatgatt agtcagaagt ttccctataa tgccatgagc 120

aaagtcaact agaagatgac tggcccgttg acagggtctg tcatacagct tttgggcatt 300

gtatacagct tttgcacatg atatatggta cttctcagag gcccaaaaaa atatgttagg 360

aacttttcaa agaccctatg ttaaaatcac atgatcccaa gttggatctg tacctggttg 420

ggcagtcgtc agcttcagct gttcaaaaac caacgcgcac ggttcgattc gtatctggac 480

atgccttggg atagaacttt catagcttgg aactcaggag gccaggtgac acagtaaaca 540

tcttgcgaac agagttttct caggaacttt gcaaacacag gttacagttc tgacaacttt 600

tcctgccatt cggcgaatat tttgaagagc tctacgtatt cccccactca actagtgtga 660

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tctctgctcc gctcttatgc tggcccggcg tgcccaccac ctg 823

<210> 26
<211> 1132
<212> DNA
<213> Homo sapien

<400> 26
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aaataaaacc atgatatgtc taggtttgaa tatctttgat ttcatcctaa tggagtttgt 180

tgagaatctt atatgtatag ataaaagcca tcgaattttc tgtcagattt caaaattttt 240

agacatgata tgttcaaaca ttctctctat ccttatctct ctcatctgtc tctggcatgc 300

tcatttatat ttgactatgt ttagtggtat cctacaggat gctgaattgt gtagccactg 360

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gccatgagct agtaagtctt ccatgctctg ccatggactc catgtgtgta ggttaggggc 480

acaccctcat ctcacaggta ttttacaagt ctgactatag ccctgaatta ttgctgtata 540

cagggtgtca aagtcaacta gaagatgact ggcccgttga cagggtctgt catacagctt 600

ttgggcattg tatacagctt ttgcacatga tatatggtac ttctcagagg cccaaaaaaa 660

tatgttagga acttttcaaa gaccctatgt taaaatcaca tgatcccaag ttggatctgt 720

acctggttgg gcagtcgtca gcttcagctg ttcaaaaacc aacgcgcacg gttcgattcg 780

tatctggaca tgccttggga tagaactttc atagcttgga actcaggagg ccaggtgaca 840

ctagtgtgag gttattggtt ttccagtaaa ggttacgtac gtatggttct tttttactta 1020

tttgagattt ctcacctact agagtgcatg gcatgatcag ggtcatggaa ctcacctcta 1080

ggtcaggcat ctctgctccg ctcttatgct ggcccggcgt gcccaccacc tg 1132

<210> 27
<211> 1001
<212> DNA
<213> Homo sapien

<400> 27
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aatatttgga gacagttgga aggaaggtag agtatatgca aggagaagga gacaaacaag 120

atgctaatgc aacagggcac caaacaccaa gaaataagca agtaaaacat ggagcgggaa 180

tcccagtttt ttgcagaaga ttaaacagag aagccttgag agacatgtat ttggtataat 240

acacaaaata tcatcatgca tttaatatag ggagtgaggg aatgaaaggc atcagaaata 300

actttcatct ctctggcttt gagaaacatt gagtagacaa gtggggtggc atttaagtgc 360

agatgacgga aacatggaga ataatatatt ttatcgaggt agcgagttga aggatgatat 420

gaatgtgtga accactgagt ttgaagtgca cttgaggaac tccaacgtgg gagagtgtta 480

aatagccaaa tgctaaatta gaaacattca ttgaaaaatg tatttttagg agaacatcat 540

gacattaaaa cttagaaaga acatattttt gaataatacc atttatattt atgttctgat 600

taacagatta caaagtgccc taaaaggatt ctttttttata aattattgat cattcattta 660

aatgatacta gattagagaa tatttacatc acctgctata agagtgacag catattagcc 720

aatggtattc atgctcgact atgcaattca gaagcaacat caaagaatat tcttcattgt 780

gttcataaac tttctcttaa gtgaataata aagaaaatgt aatgcctagc aacattttct 840

agcaattatt cttctgcaat gcatgaatac atatttgtgc tattgtagca ttaggttcaa 900

cctaattaac tcagaaaatc atttatgcac caatagccta tctttcatgt aagacgaatt 960

ccagcacctg cgccgtaaaa gatggggctt cgaccaactg g 1001

<210> 28
<211> 554
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

<400> 28
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gcacttccag ccttgtgaca gagtgagaat ccacctcaaa aaaaaaaaaa aaaacttggg 120

ggagttggat taaaaggatt ggtttgtgtt cttgaactta aacattgtta tttagacctt 180

ttttctcctt tatttatttc ccttaagtta attaattagc tattaattta cttattttat 240

ttattaacaa tttgctttgt gtatttaaat tatttttaag ttaattctac agaattgatt 300

ttaacagcat tattgggtta ttgcattaga tttattattg caaattactg cattcatttg 360

tattattaag gggacccgga gcattccagt ggatttttgg tgttccacat tggggttcct 420

tggaaccaat ttcccttaga gattactaag ggggtgactg tattccactt ccctttctcg 480

gattgaggac aattggtgca ctgagcattt tattattctc tttaagtttg tcnnnnnnnn 540

nnnnnnnnnn nnaa 554

<210> 29
<211> 467
<212> DNA
<213> Homo sapien

<400> 29
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ctggaatttc gagcggcgcc cgggcaggta ctattggcat ctgataggta gaggccaggt 120

atactgctta acagtcctgc aaggtaatgg gaagcccccc acaacagaga agtatccagt 180

tcacatcagc acgtgctgaa agttgaagga attccttcaa atactgctgt tttctctatg 240

tattaagtaa atatatgaca ttgtcaaaag tgaaaataaa aggctttttt aattcctgtt 300

ttcttcaacc aactggaatt tctggtgttc cttaatggta aaatgaaacc acctgtctaa 360

tcattgctca aaccagtaac tgaggctttt ttttttttt ttttttacgc aatagggtct 420

cactcgtgtc actcaagcgg cagtacctcg gccgggaccc acgctaa 467

<210> 30
<211> 714
<212> DNA
<213> Homo sapien

<400> 30
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tggtccccgc tgaaggataa acttaaacaa gctttgtgga tgtaatgaag ctggcccttg 120

atagattggt agactaaatg ctcccacaaa gtcccttcca gctctaatgt gatatttcag 300

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ctgtgctgct ccctgggccg tgttgtctct ctaatccttt tctcagctct tattcctgtg 420

attgattcct tcaaaagagt tcacattgta acagctggac aatggatgac caaatgagac 480

gaacattttc attgtgaccg taagttaatt gaaaaatgtc acatgttaca ggaaacgggt 540

gtaaacaaat tttagagttc tcgtgaactt gtataaattt gaaattacct caatctgccg 600

tttttgggaa aaatattgcc agttggtcta gtaatattat actttgaata aagcttttgg 660

ttttttggct ttgtgaaata atttgcttgt cccaggtgct tcatgactgt ctgg 714

<210> 31
<211> 1064
<212> DNA
<213> Homo sapien

<400> 31
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ataaaataaa agaagatcta atatatcaaa aaataacatt tccatagtcc ctataaaatc 120

tggaaaggat ttatctggaa tatttcatag tagtttctca ggagcaaaca gaatcctttg 180

cctatattta ttgtgaaatg aacagaaaac atcaaccaga gtctataata gataaaagct 240

ctaaggagtt gagtaattat gttgaaaacc agttcgatct tggaattaat aaagagtctg 300

agatatcttc attattttta taaaatatca tgtgctgtgc taaactttag ggtagttaag 360

aaaataggaa ccagggtcac aaagaaacct gatttgaatc ctggcttaag ccttataagc 420

tataggcaag taattaattt gagtctcctt ggactttctg tttctgagtc tcatttttct 480

aatgttataa aataggatat aacaatatca cctacctcta taaggataca gtgaatatat 540

tgaatattaa tttgagatat tcccggcaaa ctacctaaca gagtaacttg gcaagtagtg 600

tagtgctcta atataatgtt tatgttaaaa tgacttgagg aatcatgaat acaacagaaa 660

ctgtaaataa tatttcctaa ctagtctcct ccttctctga ggcttctagt ctgaggctaa 720

acttctaggc tattaaggaa ttcgaaatac agcttctgga gagattagat ccaccagtct 780

ttctccactg tgagtcaatt ctattaaata aagtaaatta taattttcaa acagctccaa 840

cgctggttgc aggtatttca catttacaac atatgttcta acttattttc atcatctaca 900

ataaaaaact ggtatgttta atcatatatt tcaaataagt tatctgcatt actgacaaca 960

<210> 32
<211> 905
<212> DNA
<213> Homo sapien

<400> 32
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ctaggattca gagctaggtc tgtatttgtt gatacctgaa agtattttaa gggacagatt 120

ataaaaatcc catcattctg ttgagaaggc aaatgagaat agcctgcata ttattctccc 180

cagattttct ttctgtggtt cattcatgaa attgcatctg aacatgcaca gcaccaagca 240

ccctttgatc tccaatggtc atccaagtgt ggtagccaac atcattattg cagcaactca 300

ttcaaaagca cattgttcca acacgcatga ggccatcata acatgtgcat ttagtgccaa 360

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gaaggacaca ccacaaccaa tgagcaccag ttacaccgtg tcagcttcat gcatgtcaag 480

cattcatgtg gggcagtggt tcataacatt ctcttatcaa ccaattgacc ttcccaccac 540

acaaaaatca aagccacata agaactgggg agtatatata attcccctca ggcctaaaac 600

aaagtgcaca cttgttcccc accacattgc ttaggctcaa aaattaacta acaaatgttt 660

tcaaagccaa cttagactgc ctgacacata gaaaatcatc aataagtgtt atcttgttat 720

tcagttggat ttggagtgaa taacatgtat ttcataaata tcatagtaac atactgggaa 780

tgaagagtgc ctacgtagaa accttgtctc tttgcactaa ttgtctgtgt gacctctagt 840

tacttaatat ctatctgtgt aagtggggag aatgatagta cctgcccggc gtctcgctcg 900

aagcc 905

<210> 33
<211> 735
<212> DNA
<213> Homo sapien

<400> 33
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gctgtggaat tcattattcc tttcataata cacagctgag cactgacaaa aagttagagc 120

catatgctga gccatcgagg aagctcaacc aaacttccaa aggatttaaa ttatcaatat 180

tatgttctct agaccatgag cttcttataa atgcttaata atcactagca aaaacaataa 240

ctagaaagcc tccattattg tgtgtatgat taataaacac actttatttt tattaagctg 300

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aaggcaactt atgagtgatg ataagtaata gaaactaata taagtagaaa actattatac 540

aagttgagaa ggattgacga agaaccaaat agttgtattt attacttta aatacatcaa 600

tataatttga taacctgaca cctgtgagat ggcatcaaga aaaaaaaaaa gagggaaaag 660

gggcattttc cctacccttt tggggaaata agggggggaac tttttggggc cttggaaact 720

tcctaagagg ggttg 735

<210> 34
<211> 396
<212> DNA
<213> Homo sapien

<400> 34
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gaaaggtaag tatttccaac agaataaagc caaggttctg taaataatgg agaaaggaaa 120

agtgggcagt gagtaggtag acagcaatac tagccccaag ggaagagaat gtcttggggc 180

tagtgacaaa tgcctaaagt gaatgcctaa agtgacaaac ctcttggcct ttgcatttgc 240

attcactagg acactgtctt tgggaataag ttagaggaag aaaagaatag ctgaatgagt 300

gaatgaatga atcaagcgaa cttgactgtt ctccagaact ggggttatta taactactta 360

caactcttgt gtacctggca atgtaacgga ctgcac 396

<210> 35
<211> 626
<212> DNA
<213> Homo sapien

<400> 35
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ataagcagca cacactaaga gaaagtaagc agaccaatgt gccttgatga acacagattt 120

caaaaattgt cgaggaaata tctagactaa tctgaattcc aagcagtcac catgtagaag 180

catataatcc gtggccagat acagtggtct cacgcctgta atctcagcac tttgggagcg 240

actgaagtgg gaggatcact tgaggtgcag gagatgttga cactagcctg ggcaactctt 300

tttctgtaga gactgttctc tacaaaaaag taaaataaga accaaataat tttaaaaacc 360

atggatttga actatatagc tatttttaag gttgtaatcc aaatggctgt tatatatatc 420

taagatcact gtgcacagtc taacaatcag aaaataacaa tcatgttact atcttagttt 600

tactatattt agtaaaactt tacagt 626

<210> 36
<211> 849
<212> DNA
<213> Homo sapien

<400> 36
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aagcttacag aggcagaata aaagtaaaaa caaaaagtga gttgtgaaat catcatctga 120

ggatacagaa ggttagagta gtaaaccaaa acaaactgca agacctatca aacattcagt 180

tatggaggaa tgaaggataa catgcaaagg aaaacacaaa gggaaaaaag aaaggaaaca 240

aaagtaaaaa tagcatcatg gagactgacc accatgcaat ggagtcagaa gagaaacaac 300

agcaaaatac acacagcatt gcaatgcaag tggcagcatg tgcaaacaaa tgagagaaaa 360

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tctttttttt tgaaaaccac atagccctag taggaactaa aagtattatt aacacactat 480

ggtaattcat aaactctctt gcataagcct aggaagattc cagagaataa tgaacaaaga 540

atctagaaaa acactaaggc agtgaaagca tgaaaaatac tctagctact gtacacttta 600

aacactatgc ccaattccat ctatgaacaa acacattgat agttccaaac tatagtctct 660

atttttcatt gtaactttgt ttttaattga atccacaatc atacttcgat tattggccat 720

gcaatactta atttttacaa caaacctaaa aacaaaagca aaaaaacaac ccatttctga 780

ggaaattacc gtgcaataat cgaacatatt catttgctcc taaaaatttc gtgcttttac 840

ttataaatc 849

<210> 37
<211> 775
<212> DNA
<213> Homo sapien

<400> 37
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ataataacgc cccagtgtct gaattcgcta agcgtgtccg ccgaggtact tcatcaaatt 120

aacagctcag gcctatactc tctcccaccc agtgcttaaa actcatcttt atctgcttta 180

tatcagagct cgcactcgag agaatagagg agatgttccc accagactaa ccctctcata 240

tgcgttttat agttctttgt cttctggact cagtcaacac taggccagac agctaaaact 420

gggatcaaaa atcagcagcc ttttagcttg gataatgagt agacagtggt gtgaccacca 480

ctgctggaaa gccagagggg aaatcctgga aaggggtga ccaaggagag tgctaaattg 540

ttcatataaa ctaagcccaa atctctggct catccctaaa ctatgcatag cacaggggca 600

gaccccaaga agcccagcca gggctacaca gatctgaata gatatttcat ctgctgccta 660

cctcaaagga aaaagagttt gagtctgagc ccagctaatg ctgctgaaac aaacaagcaa 720

aaaaatcaga cctgcccggc gccgctcgaa acccgattgc cagcacactg cgccc 775

<210> 38
<211> 251
<212> DNA
<213> Homo sapien

<400> 38
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atttggagat catatctatc caaccccacc ctggaacccc ggagagaatc cggaagtaag 120

caaaagtcaa atagaaccac aaaagtatat actagagttc aaacacttgg actcatttgc 180

tctgaccttt aaaccactat tctttttttt ttttttttat actttaatgt tttagggtac 240

ctgcccaagc c 251

<210> 39
<211> 644
<212> DNA
<213> Homo sapien

<400> 39
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ctttctaaca gtttaatggt gattagtaaa tacaaagtcc tttttttcca aaggtgtttt 120

ctcttttagt cattacaact ctaaaggagt caactccttt ttactttagt tgtatccttc 180

cacttcctaa ttggggcttt caaggaaatt ttatagtaac tgcctcagac cacgaattag 240

tctctccttt ctaaaaatgc acctttcaag ttttggtttg cgattattgg ggcagggaag 300

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catttttacc agctctgtat ttacagtgat tataataagt gggaaaaaaa agtagttagt 420

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tatttgtttc ttatgtgaat tgcataattc tcccaacctg aagt 644

<210> 40
<211> 952
<212> DNA
<213> Homo sapien

<400> 40
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gaggggaaag caagaagatt cagtcctcct ctgccctggt tctgcctaac aaccacctgt 120

ggaaagatca gtatcttatt tcttcatgat actacaaagg agcagtataa tttgctttaa 180

gaattctgtc ctactagatg tcatgttttg gtgctagaaa gatggttgac tatggctttc 240

tgtggtgaac aactgggatt tcagagtaaa tctgagtttt tcatatgtat tgccactcta 300

tgtaacaaac tgcaagaaag ctacagcatt actctctagc aaaatagtcc caattattat 360

atacgtattt catacaggtc agagaataga ctttactata atattactat agaaagtttt 420

acttaggggc aaacaaatac agatattcat gaaagctaaa caaagagact agagaattaa 480

gaggaaggaa acccactgca acactgttct taatttccct ttaaaatagt gtccatctat 540

gagagtctat accaaaaagt gttcagtata ctagaaatac caaaaaggcc ttgttaaagt 600

gatgggcatg gactattgaa tatatatctt ctgttggttt cgtgaatgtt cagttcttaa 660

acgtcccaat gcgccattct cacctacact tttcaccctt gatgtctgcc ccctcaattt 720

gtctggattc atttcactcg attctcgtcc gtactttcat caaaatgaat aagaacatac 780

agacactaaa agtgacttta gagcactaaa aatattagct taatatataa gaatgaccaa 840

ttcaggatat taaattaggg tgttgttagt gtctaataaa atgcatcagg gaaataggta 900

attgttggat accattgagc ttgactgatc cttatagtag aagttgaaat at 952

<210> 41
<211> 793
<212> DNA
<213> Homo sapien

<400> 41
aatccagatt cgttagctgt cccgccgagt acaaaaacat cataattcta atttagaatt 60

atctgcgtat tggtcagcac ttccgtttag actattgtta ttttctaata tagtcatatg 120

tctgtgtata aacttgcttg cttggtgaag caaaattacg ttttaaaaaa gtgggggacc 180

tcagcagcta gtctaaagga acacgaaaaa ataaatgtga aatggtttcc agactttcac 240

tatacctttc tactatgatc acacgcaagc taacccgcta tggactacag cttttctctg 420

cttccagctt tggttaaagc aattggtgcc ctggcaagag atatcaggca gcaaagtaga 480

ttgaggtcca agtgttttta cccactgctc cataaaggtg tcctttgggc cgtattactt 540

aactgatgta tcctactcta ctcaagggat cttcattgta ttactttctc caccttgttc 600

ccttggatct agggagtggt ggccaagcct attcactgcc acattcacat gtctcttttg 660

taaaaaagtc ctttgtaaat gcactctctt ctaatgattc caactctggg tgaaccatct 720

atttaccacc gtacctgccc ggcggccgct cgaaaccgaa tttgaatttc atcaactggg 780

gcgtcaacat gat 793

<210> 42
<211> 821
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (687)..(687)
<223> a, c, g or t

<400> 42
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atgtggttag ccaggaggtt gggaataact catgtggagt catatgtcta aacttggagc 120

cataaggaag ggaatacatg cagcaaagag ctgcttgctt tctcaacatc ttgtaactga 180

gaaaggccca taactcccaa tctcatttcc tgggaattct accagcagct gcgataggat 240

tacaaaagtt gcaagagaaa gggattaata accttgatga gctgaccatc tagctgagaa 300

aactgaacct atagaaagta tataactggc gaattgtata gaacagatta ttactacacc 360

acaaaatttg ggggatgtac tctgaagcgt cagaaagctg ctcaacacaa agggaactcc 420

cacaatgatg cgggttatca tcaaagggac tccagagtgc caatctgaaa gagctcccaa 480

atgggcagag catagaatgc atatgaatgc caaatataaa ctcaaatact atgtggatta 540

ttaccgcaaa gttataaaat aaatatccac tgagttccta ctagatataa ataaatggat 600

taaatacagt taatatatag aacgagtcaa atctgcccat ccaggaagaa ttcgtaaata 660

attatattgt taaaactcgc acctctncaa cggaggcatg aacatggaaa agagaagaat 720

aaaaaagagt aattaacagt agagaaacct ggcaaatatc cacttcaagc caggtcatca 780

<210> 43
<211> 1053
<212> DNA
<213> Homo sapien

<400> 43
ggcgcagtgt gctgcaagtc ggtatgggca ggtactacta gacagcttat taaacagagc 60

gaccttatta atagttggaa agaaacaagg agtgatctgt tgccctcttc ctgactttaa 120

tgaacacctt tgatttgttc atatattatt taccattatt atggagactt ccagaccata 180

tcataaaaca agaaaaagaa atcgctaata taaattattg aaattgaaga aaggaaagga 240

ttttcaatta gttttcatgt cttacacaat tatataccta acaagctcaa agggcgatca 300

tctaaacaaa acattgaatg ttatggcacg tggttatgca atcagcataa ttgttagtct 360

taaaaacagc tattcaatta tatgcttaaa taatcagcta aatactcaaa agaaatgata 420

tcaatacatc attattaaaa tcatgaaaag aaagcaacgc tgcatgacca attattctct 480

acttatttgc attacttgac tacaaaagtc ctcaacaata tatctatcaa catcgaattc 540

cataaaatag aacaaggcat tatggacaca tagccaacgt ggaatttatc ccaggtaatg 600

caagctttgt tatagctttc ttgaacaatc cagtttagta taaataacac taacatcaac 660

agaaataaaa gatttaaact atgtgtatca tctccgtaga aaaaggaata gcacagtgga 720

gaaaatccac acccctcata cacgggaccc ttacccaact agggaaagaa agagagcttt 780

tcccaaaaga aaaaggacac ccaccaaaag gaaaaaaaaa aaaaaaactc cagactggtg 840

aagagtatcc tgtgaacaat ccacacagct gtacatactt caaggatgaa tactgaaagc 900

tttccccttt aatacatcat gaatagcaat acaaagatat ctgctcacca tttctattca 960

acattgtacc tcgggccgac gaccacgcta agcttgtata taccgccagg tcctagtaaa 1020

gactgggaaa gcctcgccat gtatctgaaa tgc 1053

<210> 44
<211> 860
<212> DNA
<213> Homo sapien

<400> 44
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tggtacaatt acttagcacc cccctgtcag aaataaacag atccagaagg cagaaaatca 120

gtaagaacat ggcttgaact aaacagcacc atcaaatcaa ctaaaactta tttaaattct 180

gaagtaatac aattcataca attgtttgct cgtcagtact acagtggtaa ttaataatag 360

gtaatcaata acaaaaagtt agctgggaaa tcctaataat acttgaataa ttaaacaaca 420

cacttttata attacattta tacgtcaaag aagaaactct caagagaagt tgaaaaaaaa 480

taggttgaat tataataatg atgaaacata gttgatgagc ttttaatagt tgataattat 540

gacggctaga agaaacgaag aaactactta ctttccgttg ccctttttaat aaacatcatt 600

atatctttag gaattatgcg atattggtaa ttttaaaata aaggtagcac tatccaatat 660

taataactat gaagtttctg gttctgggga gaaaaacaag gccaatgcag agaaagagaa 720

ggaacacaca atgctctcta aatttgagaa attgaagtct aatgcgtggc tatggaaaat 780

ggctcttttt ttttttttt tgccaaaagg attatctctg tcatgtcttc aaccttaagt 840

tattatggaa atgctatagt 860

<210> 45
<211> 895
<212> DNA
<213> Homo sapien

<400> 45
gagacataac aatatttaat gtgtatgtgc ctgacaacag agtataaaaa tatgtgaggc 60

aaaacccata gaaatatgag gagaaataaa tgcatacagt atcataattg acttcaacac 120

tccaacagaa atggacagat ccagcaggca gaaaatcagt aagaacgtag ttgaactcaa 180

cacaaccatc aaatcaaata gatataatgg acatctactg actacttcat ccaacaacag 240

cagaataaca ctcttctcaa tggctcatca tggaatcatt taccaagggc agaccgacat 300

tctgggccca taaaagacac ctgaacatca cttcagaagt aatacaattc atacaattgt 360

ttgctcgtca gtactacagt ggtaattaat aataggtaat caataacaaa aagttagctg 420

ggaaatccta ataatacttg aataattaaa caacacactt ttataattac atttatacgt 480

caaagaagaa actctcaaga gaagttgaaa aaaaataggt tgaattataa taatgatgaa 540

acatagttga tgagctttta atagttgata attatgacgg ctagaagaaa cgaagaaact 600

acttactttc cgttgccctt ttaataaaca tcattatatc tttaggaatt atgcgatatt 660

ggtaatttta aaataaaggt agcactatcc aatattaata actatgaagt ttctggttct 720

ggggagaaaa acaaggccaa tgcagagaaa gagaaggaac acacaatgct ctctaaattt 780

gagaaattga agtctaatgc gtggctatgg aaaatggctc ttttttttt ttttttgcca 840

<211> 449
<212> DNA
<213> Homo sapien

<400> 46
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ccattcgggt ttcgagcggc gcccgggcag gtacttaaag tctctaatat ttatgtctta 120

cctatgaatg ttaaaaagta acagttacct acctcatgcg gttgtgcaaa gattaaattg 180

cggtaatagc atttgaagca cttagcaatg agcctggata ataagcactc agtaaattag 240

tcgctattaa aatcaatagt tgtaatataa aattctctta aaaaagtttt attagaaatt 300

attttaaaac gataaaaggt atcattagaa aaattaatgt aatgaaatta ttttttttctt 360

gatgatattg tgttggtgag gcattagagt cgataaatac tagttgatta atttaactta 420

attaatcttt ttttttgaga cagagtctt 449

<210> 47
<211> 628
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (375)..(375)
<223> a, c, g or t

<400> 47
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tcagcaatat gaagtgaaaa ccgagatatt ttaagtgcgt cacccgagtt ttaaatctct 120

ataagaaagt gtgcttattt attgtgtaga cagttgttaa attgggttcc cttacaggat 180

ggattatcag tggagccatc tattccaccc tcttacaaaa cctcctctgc ttaaaataat 240

aactacaata acattaagga atactcacaa tatagaacga tataagttat gacatttaaa 300

agaacatgtg taggggggtgg acatacaatg atataattta tttaggaaat ggaaattaag 360

ttgctattag ccttnacaaa tagcctatta caactccaaa atgttttatg gaattctcat 420

ggtaaccaga aagcaaaaaa aaaaaaaaaa aaagagggga attttggcag aaaaatttaa 480

tttgggaatt ccaggtcttt ctcccaaaga aaattcccct catttacaaa gaaagaccga 540

cagagaggaa gaacgggcgc attggtgctc ttaacacacc gaaagtgttt ccaaatacca 600

gaagtaagtc ccacctataa aggagtcc 628

<212> DNA
<213> Homo sapien

<400> 48
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gaggactcaa tcagatgact ctccatctgt gtcccaaatg actgggaagt cagtaggtac 120

tttataggct ctagattttt ttttttttt cataattact tatcttctct tttgcttttc 180

tttcacccca aagcaaaaaa aaaaaaaaaa aaggggggttt ggtttgggtt tgggttttgt 240

tttttgggtt tcgggtcttt ttttttgggg ggaaaaaaaa aattggaatt tttaaaaata 300

tagtttttta ttttaagact tctcctgtag atatttttaa cagaattacc tatggtataa 360

aagggctata tcacaatatt tttgacttat attttgcgtt gataattatt ttggacgcag 420

gtggataaag ttttctccct ctacaaaaat gtgtgggtgg tgatatattc tagcggcatt 480

atgggtaagt aagagggttt tcttaaacaa atttttattt ttgggtttgg caataactta 540

attttaatta gttgggactt ccctattaaa agcagaattt ccttttagaa aat 593

<210> 49
<211> 464
<212> DNA
<213> Homo sapien

<400> 49
ggtaccaatt tatataattt ttgtggtttc tttaaatcat tccgatattt tttaccccca 60

ggttccttcc attgcttttc tttttttgga tttttctttc ctttaagata tttatttta 120

gaaatgtgaa aaaataaata gtagagaaaa acctgtcctt ctataggaag acataagtat 180

tgaaactact acattctaac taaatctgta aatttaatac aagtataatg aaactatcaa 240

taaaatgtgt tatataattt gatacagacc tctgattatt tttcaattag gtcttagtga 300

agatttataa ttttcttttc ataggtttta ccatttttc tgttaaaaat atttctgctt 360

atattactat tttatagctt ttattatatt ttggctaatg ctgaatataa aggaaaacta 420

ctgaattttt aatatttact tttattatct ggcattgtac ctgc 464

<210> 50
<211> 1018
<212> DNA
<213> Homo sapien

<400> 50
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ataaatgaag acttacacgg taggcggaaa ggctttggca ggacgcaatt ctgaatggag 240

gcccaagata gcgcaaagag aatttctccc aattctagca actctaactt tcctgtgtca 300

cctaagcagg atacaatggt aacaaatgta ataactaact agtaacaatt taccaacaac 360

taacatacta cattaggact tctggtccca gctccaaaca acaacttcac gaacttgcca 420

accttcgtca ctctgtcctt acaaccagaa aacaaggtga acaaacttga acaaacttaa 480

ctgcatgtat ctctgggcct gctcagcaga cacctcgtgc gtctgtgcgg cgcaacaacc 540

cgtcccccaa aaacctggaa aacaagctaa tataagagaa actacaactc gagatctgct 600

taccttgcag taaacgctgc cacatactgt aaactggcta agaccactta cactggtcac 660

tttctatcga actgagcgag gctgcagtgt ggactacgca taagagataa gaaactcttg 720

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catcagaatg taagcggctg aagaaccaaa agtgatactc ttggggatct gctgagagta 840

aaggaaaaat aatcacctgt gcacaatact cttaagatat ttcttacata ataaaggcac 900

tcttgcctcg tgtattgtta agacaacgca aaagagaaga cagaggcgaa agccaacgtt 960

atacgtagag tccgtaaatt ccaaggtcta aagaagactt ggccactttc gtcctgct 1018

<210> 51
<211> 618
<212> DNA
<213> Homo sapien

<400> 51
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aactgtgtat tgagttaaag cagaatactg tatgtatagt tatgttctta tagatttcaa 120

tatcttctca attttgaggt aagttgggga gtagatatac ctttccccta ctctgacgaa 180

atgttcgtct tccttccttt tcatttccta ctttgaaata gccaagatcg atagggacct 240

tcatatgata tatccaggat agtattaaca ggattggagg ttgaggagtg cattttctac 300

taggggagat accatatact ctctataacc gtgatacaat actctttcga tccctgtgct 360

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tcagggcaag gaaagggaag atagtgatag tgacaggttc tcttcttttt tcttttccac 480

cacttgtttc tcctttccct ttccttacct ttcttgttac ccttaggtgc tctctgggtt 540

ctgaatttgg atttcagcag aatggagtaa tttttattaa acttctttag ggaacctggt 600

<210> 52
<211> 917
<212> DNA
<213> Homo sapien

<400> 52
caaaccggga ccctctaggt taatttgtgt tgaaagtgaa aagtgtaatt tccaaagaag 60

tgaagtttgt ataggtaaaa attttagacc gcaatttttt ttttttccaa aaactgtttt 120

caggctagtc tgtatgcact ggcagtctgg tttgtattga ccgttaggta ttgagtttta 180

ataaaatgtt caaatatgat ggacatacca cattatggtg agatgtgaat gaagattgtc 240

ccccacaccc ccaactgggt tgtccacagc tgtattcagt agaattaact taaatggtcc 300

agatactctt caaaaatttg aataactatt tgggaccatt cagtaccgtg aaggctatta 360

actgtgaatt gagttaaagc agaatactgt atgtatagtt atgttcttat agatttcaat 420

atcttctcaa ttttgaggta agttggggag tagatatacc tttcccctac tctgacgaaa 480

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tgaatttgga tttcagcaga atggagtaat ttttattaaa cttctttagg gaacctggta 900

acccgactgc agcacac 917

<210> 53
<211> 1055
<212> DNA
<213> Homo sapien

<400> 53
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tggactaaga aagaaaattg ggctccagaa atggggcgcg tggcgctaat aacacatact 120

tgaaaatgtg gatacagctt tggaaatggg tgataggtag aggctggaag aatttgggag 180

gagcaggcta gaaaaagcct gtattattgt gaaaggagca ttagggtgat tgtgatgagg 240

gcttaacaag acagaaaaga acactaagga aagtctagag tttgttagtg agttgtgtaa 300

ctgttgtgtg atgagagttg acataagtat ttggtctgca gttgtgtcta cgcgtcaagg 480

gtgtttgtga aaggcttgag aatgaggtag cggtatcttg gtggaagaaa gtttctaagc 540

tagcaagacc aggtcaagat gctggatggt gatcttctgg gcgctcctac agtgaggttc 600

aggagcaaag ggtatggctg aaatgcacta atttatataa tattatagag taagctagac 660

agtgaaatat ttggaaaatt tactagcctg gcctacataa agaatgaata tagtgtttga 720

gatagtggca taagctaacc atttgttata actagactta gtgcgtatat agtaatagga 780

gtctagaggc tgttcatcag gacaacatag agaagatcct gataagcaat tctagatata 840

tttaaagcat ctcttcctgt cataggcgct agtagagcag aatgatttca caggatgggc 900

ctgggcacaa cctgtataag cattgctgct caggactgac tcaggactct gtacctgccc 960

aagcctgtat ataatgcaga gtactactat aacactgtcg aacgcctcgc gcatgcatcg 1020

agaagcaaca gcagtattag ctggttacac gttcc 1055

<210> 54
<211> 1108
<212> DNA
<213> Homo sapien

<400> 54
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tcctttcttc ttttataatt tatccagtct caagtattct gttatagcaa cagtaaaatg 120

gactaatgac aaaattggta ctgagagagc tggagttgtt gctattacaa tacttgaaaa 180

tgtagaacca gcttgtaagt gtataataga ttgtagaggg aagaatttgg gaggagcagg 240

ctagaaaaag cctgtattgc catgaaagga gcattagggt gattctggtg agggcttaac 300

aagacagaaa agaacactaa ggaaagtcta gagtttgtta gtgagttgtg taaagcaggt 360

taggagcagt agtggtgaca gtaatgtgga cagtaaaagg tattttgatg aggtcttggg 420

atgggaaaat aagagtatca tagtagttag atacgtggaa gaaagggcgt atgctgttgt 480

gtgatgagag ttgacataag tatttggtct gcagttgtgt ctacgcgtca agggtgtttg 540

tgaaaggctt gagaatgagg tagcggtatc ttggtggaag aaagtttcta agctagcaag 600

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aagggtatgg ctgaaatgca ctaatttata taatattata gagtaagcta gacagtgaaa 720

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catctcttcc tgtcataggc gctagtagag cagaatgatt tcacaggatg ggcctgggca 960

caacctgtat aagcattgct gctcaggact gactcaggac tctgtacctg cccaagcctg 1020

tatataatgc agagtactac tataacactg tcgaacgcct cgcgcatgca tcgagaagca 1080

acagcagtat tagctggtta cacgttcc 1108

<210> 55
<211> 684
<212> DNA
<213> Homo sapien

<400> 55
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aattgacccc ttcatcatta ttataattac cttcttttca ctttgtatag cttttgactt 180

aatgtccata tttgtctata tataggtata gctaactctg ttctcttgat ttccattatg 240

cataaaatat cttttctata catttttaa atgtatacgt gtacttcact agtagaagtg 300

cgtactctca tgagtagcat acaatataag tagtgtttta ttcattataa acactaatgc 360

gatttatgtt tcagagaata gaattacata tagataaggt ataggactta actatctagt 420

taattttcgt ataacatata tatctaggta tagttaatag tagatacatt atagtatcct 480

ttacttacct actcttagct agtactattc tatataagta ggcttagacg ttagatttta 540

tctttatagc gtcacgtaat agctatctag aattctccta acattataaa tatactatcc 600

tagttaataa tactaccata taataatata tataaataaa ttataaaggc aatacctggt 660

acacaccaat gaaaatattc caaa 684

<210> 56
<211> 383
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (283)..(283)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (287)..(287)
<223> a, c, g or t

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aaagaaggca ggagagaacg aaggacagag aagaaaagaa ggaagaaagg aaggaaggaa 180

ggaaggaagg gtgacaaaga agaatattag agagcactca aataataatt cttgaggaca 240

agttttaaga cagatcggca ttatgaaaaa cagattttgt cancgtngag aagccgctca 300

gggcttcagc ctagatcctg cgctgctcac cacaccagaa agccaaccac tgagatgaga 360

cctcggccgc gacacgctaa gcc 383

<210> 57
<211> 842
<212> DNA
<213> Homo sapien

<400> 57
cggacgtatg ccgtgtaccc acttgttcga gctcgatcca ctatacgccc ccatttcctg 60

aatcgctttc gacgccgccg gcaagtacta ttgttggttc actacccgga gcccatcact 120

tgtgggacca acaatgtaac tgtggcacag ttactctgcg attagggcaa tgcaggctaa 180

tattgtaaag gcccaggaaa agtgaaacgg cagcagacag agagtgaatt ccatctgata 240

acagcactga tcatgtattg caccaggtgc tttcaaatta catcatttca agtgtaatct 300

actactataa cctcataagg aaactgagga tcagagaagt ccgagtaacc ttacccaaat 360

aatacacagc cagccactga ccatacacca gtctctttga tagcaaaggc cagatggctt 420

tacactacac caggaactat aactacccta ggagcatatg ccaaggaagg aaatagaaag 480

tcagataatt caagtagcgt tgcctaaata ttacacgtgg catgcatgag ggtctaacgc 540

gctagatgtc tataacacat gcctttctga tgtctctaat gagcaactgc aaaggttagg 600

ggctcttctt ggccctacag ctctcaagtc tggtggcaga gatcttttaa gagagaaaaa 660

ttggaagtcc catgtcttgc tcccacctag cataaacggg actgacttgg cagtgagcac 720

ctgaagtagg gtaccttcgg ccgcgacacg ctaaccgaat tctgcagatt catcaactgt 780

cggcgctcga gctgctttaa aggccaattg ccttatgatt cgtttcattc actggcggtt 840

ta 842

<210> 58
<211> 710
<212> DNA
<213> Homo sapien

<223> a, c, g or t

<400> 58
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acatatatta acaagattgc aattttaagg ccacacttgg catcttggaa tggttcatct 120

taaaaacact tttctgttct ctagatgttt gtgttatcgt atgcatcagg tttctcagga 180

aactcgtttc ttgcagagtt agacctggag actcacaaag ttggttganc aagcaaaaca 240

actcaattta gcagatcagt gtcatttctt cccattgttg tatggttaca tgcaagaatt 300

agaacccctg agcactgaaa catctacgta aagcttctgg ccagttcagg aaatctgctt 360

aatatttagt aagctgctta cacatttgag ctctatggaa tcagtgtaaa ctctcaaaga 420

aacatctagt tcaattcaac aatttaatga gaaccgatgt aataggcact acactagatg 480

ctagggactc aaggacaagc aaaacacaac ctttcccact tggaaagctc acagtcttag 540

gggagcagct tccctcttgg taggtagaag gcagtatgta tatatacaat gacgctgcag 600

ggaaatccct gctccggttt taacttttaa tgtagcatta cttcttctgt gtgtagatga 660

ctaatatgca gtcagctttt aaaagtttta ataaattttg acataagtgt 710

<210> 59
<211> 975
<212> DNA
<213> Homo sapien

<400> 59
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gcaataggga aacttatata atgataaaaa gttaattccc tccaaaaagg aatattacaa 180

attacaaact tatatgcagt taataattat agccccatag ttgcataaag aatacctgac 240

agaactgaaa agagaaatag aaaaaccagg aataacagct ggaggattca atacttcact 300

ttcaataaag gatacgaata attactcaga acgattacca agaatagtag agttgacaaa 360

aaaataaaaa cgcaatcatt gaaacacacg atgtgtagaa cacaccaacg ttaacaatac 420

gcagcaatcg tatcttcttt ctcaagtgtt catgggaaca tattcttagg ttagaacaac 480

atgctacgct gtaaatcaag cctctaacac atgttaaaag gattgaacat cattatgaag 540

ggtctttttа aaacacaaat gagatcaatt taataaccat aaagaaattt gtggaatatc 600

gcagggttta gagggaattt taaagctgta aacatcaata tttaaaaaga aaaatggttc 780

tccaaataaa aaacctgacc tgccacctta agacactgaa aaaagaagag caaactaaat 840

ctaatgtaag gagaaacagg aaataataaa taaaacagga gaaatttctc aaatggataa 900

tataaaagtg acagaaaaaa ttaaccaaac caaaagtcag tcctttaaaa ttgttaacaa 960

aattggcaaa ccttt 975

<210> 60
<211> 1201
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1123)..(1140)
<223> a, c, g or t

<400> 60
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aagttcaagt aataatcttc agatgaaaac caaaaaatgc ttataaattt ggtgaataac 120

tcctgaagca cttatgttat taaaagtgtc tttctgatta agactatctc tgaaacagaa 180

aactaagata tcctattttg tatctgacat aactctaaat tcatcactcc ttaaagaagt 240

cttcctcatg actgatcagc tgaatcaaat aattttcctt ttttctttat tacattttaa 300

ttaatcagct gataaggttt ggacacccag aagaagcaga aagccagtca ctttgcagta 360

attcaatttt ctttattggg gttgcaatgg tcaaggaaat aacatgctcc aaagataaca 420

caaaagtgaa caaaaatggt tcctgtcctg aagaacttca ccttttgga gactgcatca 480

gatatggcag tgaataacta gtataaatag aagaaaagta gtaaaatacc agtaataaat 540

gcgcttcatt gatacaagca gataaatctt agtgaaactt caaaggaggg cataacatac 600

ttctgacttg agaggaatca ggagaacttg ttgaagaaaa agataatttc agataatctg 660

tgaatggtag ataagatttg aacagataaa tgtaaggaag aaagactttc caagaaagag 720

actcaatgtc aaataagagg gcatggtcat aagggcaagg ctgcacttga ctggactctg 780

gaatatgatg caggtggcat gaggaagaag gtgggcatca tcagctgcag ctgactcagg 840

gaccttgaat gaccatgtgc aagctctggc cctaccactc agacagtgtg gactcactaa 900

gaagtgagtg ggcctggcaa accccagctt tagaacgatg aatggagaaa aagtggaggc 960

agatggtttc cggcacaaga gagagggagg agccagccag gtnnnnnnnn nnnnnnnnnn 1140

taagccgaag tccagcacac tgcggccgtg acaagtgatg gcgagctcga ccactgactc 1200

a 1201

<210> 61
<211> 693
<212> DNA
<213> Homo sapien

<400> 61
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atctatcctg ggagaaggtt ttatgtatgc ttgaaaagaa tatttattct gctgctgttg 120

aattgatgtt ctatgtgtgt tatgtccatt tgctctgagt gaatgtttcc ttattgattt 180

tatgtctgga tgatgtatcc atttgttgca agtggcttac tgatatccca tactactttt 240

gaaattgctg tctacttttc ccatttagat ctgttaatat ttgctttatg tattttaggt 300

gctctgatgt tcagtgcttg tatactgaca gttgttatat tgtcttaata atttgatcca 360

tttgttatta aataatgact ttctttggct tttgtgggag gattgtctta aagtctattt 420

taactgatat aaatatacgc tatctctgct cttttggtta tcatttccat ggaatatctt 480

ttctcatccc ttcacttgtc agccctattt tgtgttcctt gtagggcagc atattatttg 540

ggttctctga gttctaacaa ttcatttacc caatcctgtg tctttttggt ctagacaatt 600

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ctattttggt ctttgtcctt ttccctgatt ttc 693

<210> 62
<211> 745
<212> DNA
<213> Homo sapien

<400> 62
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attttatcc ccaagcactt catctagata gcaaaacata tactcttttg taaaaatgca 120

cattaaatat ccattgcctc taaattaatg cccacgtata aagtcccaaa gtaagatgcg 180

ctccttccca atcaaaattc tctaaacagg gaattctcta aacagggaat tctctaaaga 240

gactaaaatt ctctaaaggg aacagaccac ctatgagtgt gaggcagaag acctcagcaa 300

ccagattgcg caaacgtcag cagcatcact ggatctatta gattcaaata taaaataagt 360

tatgtgtaga ttaaacagct agattagata tagccaaagg aagtacacta ggctgaaggc 540

ggaacagaca tctgaccgac acactgcagt acaaagagta caaagacata taaaattatt 600

tttaactgtc aaaatacata gatgatagag taaacacgcc gttaacatat tttcaattgc 660

acctacgggc gcgaccgagc taagccgaat tctgaatatc ttcacatggg gacgacgaca 720

tgaattaagg cccttcgcct atatg 745

<210> 63
<211> 985
<212> DNA
<213> Homo sapien

<400> 63
tacacaacaa aacagcaaga aacgaacaac aaaagatata ccacgacata actcctgttg 60

ctttttcgat tcatggtcga gcggtcgcca gtgttatgtg tacctgcgta attaaggctt 120

actaaaggct ctagacagtg taataaggcc agaaaaataa aagatttaat aagttggaga 180

gaaaaaaaga ctatcattat ttgcagatgc atgattgtat aatataaata taccaaaggt 240

cgagaaacta tggtaagaat atttaatcaa ttcatacttt tattattaga tatagtaatt 300

tttagcaaaa agcatctatt tgccacctag aaataatccc acataaagtt aagacaagaa 360

ctttatacca acaaatgata aaattgttgt atattaaagc agacttataa taaatggaga 420

gatactctta tgtgtaaaga caggacaatt agttcaacgc caaactggct tatgaattta 480

atacaattcc aatggaaact acatttcttt agttaagctg atattatgat ttgaaatttt 540

atttgaaaat ctcgtgggca gtgacagcta aagcactcac caagaaatat tatcaagttt 600

tattacaaag ctagagtaat ttgtatagaa cccctaaaca gaaccaacct atacagaaac 660

ttgtttacat ataaatactg tgtatttaga gagaaaagac aggactttag taatttagtg 720

ctgagacaat gtgttatcca taaggggtca acaatagtga tagaactctt tatctcacag 780

catgctttag aacaggagag aaagaaagaa atgtgtaaaa cttaacaatt gtttatggcc 840

taatatacag aatgatgtcc taaacaaaat accaaaaagt aattatatta agaactcttg 900

ggggtagaga ggaaatgggg atatgtagtt ccaaggctgc tacgttgcaa ttagtagaac 960

tgaactaagt ttagaaattt aatgt 985

<210> 64
<211> 707
<212> DNA

<221> misc_feature
<222> (320)..(638)
<223> a, c, g or t

<400> 64
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acgagctctt ctgtcaattt cctaataaac gtccccagca ccccttttggc aggtcaaatg 120

tcccccgcca tctcagcccc aggctttctg tcattatagt ttgcaatttt ctagaaattc 180

caatataaat gaaagccata ggagcataat agtacagtag tacatatgaa ataggtattc 240

acttgtatct ggctttttta tttccttgga gacagggtct tgctgtgtca cccaggctag 300

agtgcagtgg tgcaatcacn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnaa cgcaacagac agcacacatc 660

acaacggaaa agtcaagaag ccacgcccag gcagacgaac caaaaga 707

<210> 65
<211> 772
<212> DNA
<213> Homo sapien

<400> 65
aactacttgg cactggtctc tagatctgct cgagcggcgc agtgttgatg gatatctgcg 60

aattcggctg ggcaggtaca ttaaaggaga aagatctcaa ataaaaaacc taactatata 120

cctcaagaaa cagaaaaatt aaaaaattaa ttaaaaaaaa aattagcaga aggaagaaaa 180

tagtaaaggt aagatcagaa aaaaaatgga ctagacgaat ggaacgacac aattttaaca 240

aactgggaaa aaactggagt tggtttttct tgaaaaggga taaacaaaat caacaaaccc 300

ttagctgaac taagaaaaaa aagggaactc aaaatcagaa atgaaaggga agatattaca 360

actgaaccta caattaaaaa gaatcataaa tgaatattat gaataattac atataatgaa 420

ttagacaact tagaagaaat ggagaagttc ctaacaatat acgacctacc taaaacaaga 480

agtaacagaa agcctgaaca aaccaatgac aaattaggat attgaaggaa taataaaaaa 540

aactcatttt aagaagccca ttaaccacca aataccaaca ccagacaaaa ccaccacaag 720

aaaataaaac tagaggccaa tttccctgat aaatgaatat acaaaaatct tc 772

<210> 66
<211> 1248
<212> DNA
<213> Homo sapien

<400> 66
ggctgggcag gtacattaaa ggagaaagat ctcaaataaa aaacctaact atatacctca 60

agaaacagaa aaattaaaaa attaattaaa aaaaaaatta gcagaaggaa gaaaatagta 120

aaggtaagat cagaaaaaaa atggactaga cgaatggaac gacacaattt taacaaactg 180

ggaaaaaact ggagttggtt tttcttgaaa agggataaac aaaatcaaca aacccttagc 240

tgaactaaga aaaaaaaggg aactcaaaat cagaaatgaa agggaagata ttacaactga 300

acctacaatt aaaaagaatc ataaatgaat attatgaata attacatata atgaattaga 360

caacttagaa gaaatggaga agttcctaac aatatacgac ctacctaaaa caagaagtaa 420

cagaaaacct gaacaaacca ataacaagtc atgagactgc agtcagaata aaaaaactcc 480

cagtaaagaa aagcccagga caagatggct tcataagttt attctaacaa acatttaaag 540

aagaactaat accaatccta ctcaaactct tccaaaaaat agaggaggag ggaatacttc 600

caaactcatt ttacaaggcc agtattaccc tgataccaaa accagataaa gacacatcaa 660

aaataattaa aaaataaaac tacaggccta tatccctgat gaatactgat gcaaaaatcc 720

tcaacaaaat gctagcaaac cacattcaac aatacattaa aaaagatcat tcatcatgac 780

caagtaggat atgttcctgg gatgcaagga tggttcaaca tatgcaaatc aatccaagtg 840

atacaacata tcagcagaat gaaggacaaa aaacatatga tcatttcaat tgatactgaa 900

aaagcatttg ataacaattc aacatctctt catgataaaa accctaaaaa atctggatat 960

agaaggaaca taaccttgac ataatgaaag ccatattgaa agacccacag ctagtgccat 1020

acttaactag ggaacaacat tgacagcctt tcctctaaga tctggcaaca tgacaaagat 1080

ctccatttca ccactgttct tccgcatagc actgggaagt cctagggtag agcactcaga 1140

tacggagaac gaattacagg acaccaaatg gaaaataaga agacacaata tcctcgtctg 1200

acatgacctc atattgggaa aacctgaaga tccacaagaa ctcgactg 1248

<210> 67

<220>
<221> misc_feature
<222> (405)..(405)
<223> a, c, g or t

<400> 67
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acagtccagg gtaaaaataa aaaagggtta aatatcaatt tctggaaaat ctcacttttt 120

tttaaaaaga aattaaaacg ggccagcaag aagtctcaaa aaagattcag ctttactata 180

atgggcccgt ggggatgaaa atagtgctat taagaagata gtataaatat ccgaggccga 240

ggcccaggga gggagaaaag aaagaaaagt gggggggagg caacaaaccc tccgagggta 300

gtttattata tccgcggata tctccaacat tcctcccggg cgggcctaaa aacgagttat 360

ttaagtcctt agtgggggaa acctttccag gcagagaact ctgcnggcgc gggaaaccca 420

cgccttaagg cccgaaatct cggtgagaat tatcctatcc accacggggg gggcgcgctc 480

gaagcctgtg cttcttaaga gggggcccaa attcgcgccc ataataaggg gaggtcggtt 540

attaacacat ctcaccgggg gcggggcggt tttaacaacc cgtcggtgga cgtggcggag 600

aaacccgtgg ggcggttttc cccaacatta aatcgcgctt gggagagaca tcacct 656

<210> 68
<211> 694
<212> DNA
<213> Homo sapien

<400> 68
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gcttttgtgt gctggtaatc cttctatttc ttgaaccggg tggcaattat atttttggtg 120

ctgctttgtg aacattcacc aaaccaaact ctacggttac gtatttttca gtatgtgcaa 180

cttacttcaa tcaaaataca atcactaccc ttcagattat aactggatac aaagaaacac 240

tgagcacaag gataacttta ataaatttaa aaactatcac cagggttttt agctaattag 300

aacacttttc agcttcaagt aacagcaaaa tcaacttaac tggcttaatc tagaacagct 360

aacgaaaggg cttcacaata atatgaaatt ccagggccaa aaacaggagt tgactaattc 420

acggtccaac aaaatctagc aacactggtt ctttcttttt cctttttttt ttttttggga 480

cattaagtgt cctcgcttgt gtgcgcccag gcttgatgtt agcagatttt ttgcagattt 540

tccgctcacg cttgggggcc gtttggaagc ttgtttttag agggccaata tcggctttat 600

<210> 69
<211> 487
<212> DNA
<213> Homo sapien

<400> 69
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aggactgaaa aaaaaaagaa cagctgccta atcgtctgga agctcctgta atcccaagat 120

gtgaattaca gagttctctg agttgctgag aaagaacatc cgagttttca gcccagtcag 180

cgttcagata attctttgtg aagttaggag tgaggactca ttaattgcct ttaggcagaa 240

gggctgtaac cctgggacta agggtggatc tgaaaggaca acccccctaca acagagacta 300

aaatgagacc tttacaagga gcaattctaa ttccaccagc ataattaaca gtcctgccaa 360

aacaaaatac aacacttctt gaaaaagttt aacagtgatc cagagtcctg tataaccact 420

catctacaat gtcaaaccta actgaattag tctgctccag gctgccatga caaagtacct 480

cggccaa 487

<210> 70
<211> 594
<212> DNA
<213> Homo sapien

<400> 70
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aagtgtttat agaacttgat gaacgtttaa ctgtagcttc caacttaaag tatacctgcc 120

acaagaacga aagtaataat ctcacctccc tttttgtgta gagactgaat tctaattagt 180

tgtgttaata gtatttgctg aataccttte aattcctaaa actggggtca aagtagtcaa 240

cattgcagtt aattattttt gaagaggata tgaactattc tgttatttaa gatattttaa 300

cctaaatacc attatgagtt aaaatgcata ccatgatata acaatttacc tattaactgt 360

tgacaatctt gcagccaatt aagtttttta tagaaccagt gttcttaggt atgtttgttg 420

agccttctac ttttttttccc tttgatgtgg ggaatagcat caagcagcaa gaaaagagtg 480

ttgatcgatt tctctctctt tctctctctc tctctgtatc cttgccgttt aaaatatgca 540

ctttccaact agtatttggg ccgttaggga gttagtatct ttgtaaagat taag 594

<210> 71

<400> 71
acctgatttt aaaattatat gctcaaatgt atattgcgta taaaatgcta acagagaatt 60

aagtgtttat agaacttgat gaacgtttaa ctgtagcttc caacttaaag tatacctgcc 120

acaagaacga aagtaataat ctcacctccc tttttgtgta gagactgaat tctaattagt 180

tgtgttaata gtatttgctg aataccttte aattcctaaa actggggtca aagtagtcaa 240

cattgcagtt aattattttt gaagaggata tgaactattc tgttatttaa gatattttaa 300

cctaaatacc attatgagtt aaaatgcata ccatgatata acaatttacc tattaactgt 360

tgacaatctt gcagccaatt aagtttttta aagaaccagt gttcttaggt atgtttgttg 420

agccttctac ttttttttccc tttgatgtgg ggaatagcat caagcagcaa gaaaagagtg 480

ttgatcgatt tctctctctt tctctctctc tctctgtatc cttgccgttt aaaatatgca 540

ctttccaact agtatttggg ccgttaggga gttagtatct ttgtaaagat taagtcagca 600

gaggaaggtg ggcaaataat atttttgata aa 632

<210> 72
<211> 989
<212> DNA
<213> Homo sapien

<400> 72
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tattgttcat agcagtctct cgtaatcttt ttacttctgc gtcctcagtt tgtaatgtct 120

catttctgat ttgtgttact ctactttaga cttctatttt cttacttatt gaaagaattt 180

gtttaaattt tttatttttt aaaaaaactc ttatttcatt gattatttct ttattatatt 240

ttaatttatt ctctatttcg atttatgttt tctgtaatct acgaccttcc ttttgctaac 300

tgtaatctag gaccttcctt ttactaactt tggatttagt ttagctattc ttattatcta 360

gttctttgag atacaaaatt atctccaatt cattgattgg ggatcttctt ttaaaacata 420

caaacagttt actgccacag tttatggtgt gttgtcgttt tcatttgtca cctgctgtta 480

aaatactgtt aaatagtgat tctctgtgac tcatcaagat tgttcaagag tatattgctt 540

aatttgccac atctttgtga attttctagt tcagagtttt ctagtccagc atttctagtt 600

tcactgattc attagaaaat atacgtgggt tttctcatca gtattcttct tgaattcgtt 660

aaaacattga ttcgtgtcct caatatgtgt tctgtcttgg agactgtttt atgtgcacct 720

gagaagaatg tgtataatta acataagggt ggaatattgt ttatatatct attagagtca 780

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agacttataa gtgttgtacc tgcccagcc 989

<210> 73
<211> 795
<212> DNA
<213> Homo sapien

<400> 73
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atgggagttt ttttctcaac tctttattct tccccagtgc atatgaggaa tacattaaca 120

gttccacgtc gtccatcaat tacaacaaag tggctattgt gtagtaaaat gtgtgcttcc 180

aaataatgtc tttatcttgg agggtgagat aagagtacgc aatgtaggga attcttgacc 240

aacttttttcc aagtatatct tggctcgtcc catcccagga atagtgagtt gttttattac 300

tttgtttatc aacatctcaa ttccagtgaa actattcttg ctttccaaga tattgttgaa 360

tcttgtttct gcctcaatac ctagtgtatc cttcactcat aagttttcct aatacctgaa 420

ttacatataa cgaaatgtat ttgtatttgt atcaagcacc agttggcatt tctgtgtgtc 480

tactgactcc ttaaatcctt tgaggtagcc actattatag ttcgcccaaa attctagatg 540

tattacaact gtaggcgcag taaggtctat ggtaaggttg gatccttagc ctgactctct 600

gcagtggcct atagctactc ctaacatctc tacttatcca taagctttta gagctctatt 660

ttgatcctct ttgtaagaat cccacaagcc ttataggctc aggcatctgc tctctcaact 720

caccagcatt aatttcagac acttctttgg aaatttcatt gtgcacttcc cttgttattt 780

ctctgctatg gttgt 795

<210> 74
<211> 1266
<212> DNA
<213> Homo sapien

<400> 74
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<210> 75
<211> 720
<212> DNA
<213> Homo sapien

<400> 75
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agttttcaag gcaacactcc agtggtctcc acaagtaaca caaaaatagt aaccttcagt 180

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acattcttgg aactgagaaa ttatacttac tgaactaaaa taattcactt caacgtgcct 300

ctgcacaaca gtaatatcat gcatagtaag acgggataac tacattctgg tgcagcctcg 360

aaatgatatg ggttatttga cataactacc acaggagggc agcaacagat acgtaaaaac 420

aacatgacac tgacacacga aaccaaatga ctgtcctagc aaatggacta acagaatata 480

aaatgttttc ccaaatatgc ttgagaaaag agacccaaat tatccaggtt ttggaatgct 660

cagaataata ccaaaaaatg atccaaccca ataataagaa ctaccccaat gcttattagc 720

<210> 76
<211> 926
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (703)..(703)
<223> a, c, g or t

<400> 76
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aacaacatca tagattcttt catatatgtg ttgtttgcga aactgatgct tcactcggaa 180

ttaacacaca ggaaaaggat catactattt aagagaacac ttaagaaatt tttgcttagt 240

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agaagaatat atgagaaaca agttggtcac aggttgacaa gagattctga atggtaatgg 540

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agccaactgg ctaagcaaca caaaaggggg caaaatttcg caggatttag cgatttcctc 840

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<210> 77
<211> 1078
<212> DNA
<213> Homo sapien

<400> 77
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cactccatct gtaaacatat tttggcatag ttaaactagc aaatttctta aacatgttta 480

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tatgagttat tttttctcat gctctcggct ccaggtttga gtttcttaaa ttttgaaaac 600

actatgtttg tttcaaatcc ctgttttatt tctttcctga aacacatgcc taccttcttc 660

aataagctca gtcacattga tcattgagct ctctaacatc atttacaact aggaatttct 720

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attagctaag aatttaaatt aaacaataaa ttccccaaat tcttgcttca ccatgcttgt 1020

acctgcccaa gccgaatcca gcacactggc gccgttacaa gtgagccgag ctcgacca 1078

<210> 78
<211> 1093
<212> DNA
<213> Homo sapien

<400> 78
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ccatgaccct ccgtttccac gtgtaagaaa ttaaagagag ccaaccaaag accatggtag 180

gcgaagaaac caaagaaaag tacattcaat gaaacaaaaa aaattaaaaa atcaatagag 240

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caaacttatt caattgcctc aattataaaa attaaattag attaacacaa cattagcttt 600

catgtgtctc ataatttta taaattgggc attgattagt taaagaaacc ttttccacaa 660

agcaacaatt ttaaccccag tatttgctct tcactggaaa tttctgctaa tctacttaag 720

taaagaaaat aagtatacat atttctacac aaattctgtt caccaaaggt gaaaaggagg 780

aaatgcttct caagtctatt ttatgaggcc agtatacctt gatacctaat accaaataaa 840

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taacaataat gttaagaaat caaagttcat agtggaatta tataaccagg aatgcaaggt 960

tgttttaaaa tattgaaaat ttggctcatg taaattatat taccagaact acaaagaaaa 1020

actatggaag catatcaaca aatatagaat cacacaaagt ccaatatcca ttcttcataa 1080

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<210> 79
<211> 1031
<212> DNA
<213> Homo sapien

<400> 79
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ccttactgcc atttaatccc tcagtaataa acccctgaga agatagagta caacgcttca 480

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gcaagtgtct agaactgagg tatgcactag tttccgtgac tcgtatagcc gcatgctgta 600

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taaaatcatc agaatactaa aacacacaaa atcacaacta ctcttagaaa cagattctca 900

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<210> 80
<211> 588
<212> DNA
<213> Homo sapien

<400> 80
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ttaagaaaaa tttactcaaa ctttcaaaat cttgtgtttc tttgccccta aacatgggga 480

ttataacagt cctacctcat aaagttttca tttgggatta aatgagataa tgcatgcaaa 540

gtactcggcg gaccacgcta agcgaatcag acactggcgc gtaatatg 588

<210> 81
<211> 1085
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (248)..(248)
<223> a, c, g or t

<400> 81
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ctgcatctgt cccacgactt ggcatattcg tacttactca tggtgtgaag ggagacctct 420

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ttcagttaca gaaatttgaa tgcacattat ggagaaaacc gtacctcgcc gcgaccacgc 1020

taagccgaat tccagcacat ggcgccgtaa tagtgatgtg gctcgacaag ctggttcgcc 1080

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<210> 82
<211> 837
<212> DNA
<213> Homo sapien

<400> 82
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<210> 83
<211> 1156
<212> DNA
<213> Homo sapien

<400> 83
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caccttttctt tgcttaggat aaatgggagc ctttcaaaga atagatcata attatttaac 960

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gcacaactgg cggccg 1156

<210> 84
<211> 918
<212> DNA
<213> Homo sapien

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gcagctcgta tcactgga 918

<210> 85
<211> 1210
<212> DNA
<213> Homo sapien

<400> 85
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<210> 86
<211> 1106
<212> DNA
<213> Homo sapien

<400> 86
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attcctgaaa acaccagcat tttttttgcc tacaagttta ttgtgccttt ctcttccgtc 180

cctcccttac cacttctcca ttcacatctg gagacaataa cccatcttct cgctatcagg 240

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<210> 87
<211> 80
<212> DNA
<213> Homo sapien

<400> 87
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<210> 88
<211> 1341
<212> DNA
<213> Homo sapien

<400> 88
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actggcgata gttagttgag acgagtttcg gtgttgatgg tttttcaatc taactgtatc 420

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attttcatct agattaaaga acttacaaag ataatgggat tttgattttc tggcattaat 1140

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<212> DNA
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<400> 98
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nnnnnnnnnn ncaaacgggc ggcgagagcc caccgcgggc cggc 1004

<210> 102
<211> 1033
<212> DNA
<213> Homo sapien

<400> 102
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catttaccag gaagtggatt aaggacacca tctgcagtcc aacctcctgc agtgccccat 120

ggtcccaccc catacctcta gctacaattc tacgtccacc tcacagttct ggacatcact 180

tggacttata ctaggatgct aggacaccat gaagacttgg aactacacct ggaccgaagc 240

tacgagtcct acctgagtac ctactgacct gctgtctttc atggtgtgag agtccagggc 300

gtgctagcga aacatggaag tggcgcacga cacagcgtgt atgccaactg tcttctgaaa 360

ctgggtataa cctttcggtc ctcgtcctgt cggaacacgt ggactgtcat ctgacagact 420

tctcgcgtca ggttatcacg tgaggacaca cgacaacaga cgctgggtgt accagtgttg 480

tatacgtgcg ggatgcagga gaatgggagg gcgtggcggc ccaacccatg gcaagagtgg 540

acatgttgat tcactaaggt ggaacacgtc gtctacagga tcacgtgagc gcatacggct 600

cggaggccac aagtgcagtg gaggcacaca cacagcagcg aaggcatgac gcttgtacca 660

cagtaggccc aaaggctggt cctgggggca cactgggaga agcctaagaa taaaggccgt 720

gaggcacgaa agaagaaggg gagaggagtc ctcctaatgt tgttgaaagg agagggagac 780

taaggggggag agaaaactga aaagctgaat taaattaaca caggagaggt ttgttcaagg 840

tccccctata accaccgtca gattttgatt gattgtccct agcaggaact ctacagaaga 900

tacagagcta tcatggctgt gggttaaaaa aaaaacaaaa aaaaaaaaaa aaagcttgta 960

<210> 103
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<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (192)..(382)
<223> a, c, g or t

<400> 103
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agatatcaga ccctcaatat aagagatgtt aaaggaagct tttcaggcag aaggacaagg 120

acaccagatg gaaatttgta tctacacaaa ggaatgaaga ggtccataag tggtaaatat 180

agaaataata tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nncttgttca tgtctttttc tatcttcaat ggctgatcaa 420

gcccttctcg tgacgtcttc tctctggttc tgacgtttct gcccctcatc atccccattt 480

aaaggtcttg tgatttatat tgggctcacc tgagttatct aggctactct ccctattttg 540

aggttagctg gttaccaacc ttaattcagt cttcaaactt aattgattct tgccttgtaa 600

tgcaacaatc acagggttct ggggattaag attggaaagc ttgggggtca ctat 654

<210> 104
<211> 466
<212> DNA
<213> Homo sapien

<400> 104
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tagagggatt ttcccctact gttcagcatt cttctgagtc atctaacctt cttcagttgg 120

tagtttaagg aatgtaaatt agttttctat tagcctaaac aaacacaatt agaaaggaaa 180

atcccttgag gcaaagaaca cctatcaaag ccaaacaaat tacctctgac cattgtaatc 240

agggaaataa atgaggaacc aatgtaatta tctttttaat cgctggggaa agtgttttaa 300

tgttttcttt tatagatttc ttcagtattg tgtaatacta atgttctttt atattcgtgt 360

<210> 105
<211> 545
<212> DNA
<213> Homo sapien

<400> 105
ggagacgtga gatggaagag agaagaacca agacacgagg cgatgaagag aatagaagaa 60

aggtatatga ataaggaaag aatcaagaac agacaagcta gatgaacaag cgacaggaag 120

aagagagagg aagaaggaag agagagcaaa cagaatcaag acagaacaag acaagagata 180

taagaataga gaagaacaag aacagagaac aagacacaag aacaagacac aagaagagat 240

aagaagagca acaagaagaa gaagaagaac aagaagaacg aacaagaaga agaaacaaga 300

acagaagaag aaggacccta gcaccagtag caatacaagt gccttttctt tcattttctc 360

tttcttttct tttctttttt tctttcttgt atatctgtat gtatgtatgt atgtatgtat 420

gtatgtgtgt gtgtgtgtat gaatgaatga atgaatgaat gaatgaatga attaattaat 480

gaacctcgcc gcgaccacgc taaccgaata cacacactgc gccgtacagt gagcgagctc 540

gtcca 545

<210> 106
<211> 560
<212> DNA
<213> Homo sapien

<400> 106
ttcgcagaat tcgcttcgag cgcgcccggc agtacttgaa agataataag tgtctcattt 60

acagcatgtc aaaacaaagt ttggtattaa ctacttgatt tatttatctg agtcattttt 120

gccacatgat ccagattgtg ctttttactg attatagttt gttcacttga gggaggagcg 180

ttttatttga gtctatatgt gtatctttaa cacagttttc actcatacac aagaagctac 240

aaatcattgc agtcctttgc atactttgta aaataaattt cagaagctct ttttccaaat 300

ggaacgaaac cacctgggat tgaaaggaga ccatgatcct tgggttggaa aacacttaat 360

cttgatgtca tatgtaatga aaataagctc aaagctaaac gttgatctcc ttggcataaa 420

attccccccat gtcctgagta tccataggtc tcaaccttgg tcgagcaatc catggacaat 480

cacagtgggg gaagagcagg acagaaatgg aggaaatgtg gtaataatat aattcatctc 540

ctccttaacc tgtgatggag 560

<400> 107
actgccctgt gcttgcttta ggtttggtat actcttttt cagtgtttta acatataatg 60

gcaggcaatt gattttatat ctttcatttt ccttatatag gttgagtgtt ctgcagatgt 120

ccttcaggtc tatttggttt atattgtcag tcttctattt ccttcttgat tttctttgta 180

gttgttctgt ccatttttga aaatggggca taggagtccc ataaaatgtt attttttatg 240

tctagtaata cttttggttt taaaatctat tattcctgat agttgtatag cttctctagt 300

attttttgt aattgctgat tgcatgacat atttgtttct attctttagc tttcaatcta 360

tacttacctt tgaatctaaa acttgtctca tgcaaaaagc acaatgttca atcatttta 420

ttcagtctga taatctctga gtttcaattc gatttttagt ccacttacc 469

<210> 108
<211> 177
<212> DNA
<213> Homo sapien

<400> 108
taaagttccc ttttttgttt tatttaaata attctagcaa gtagatgaag ttacttttg 60

tttgcgtttc ctgcaactat tttgttatta tttatttatt taagcagaga attgtctttt 120

aaaaggatta aaactgggaa gtttgaaatt tatatttatg ggaagtagaa tagtgac 177

<210> 109
<211> 37
<212> DNA
<213> Homo sapien

<400> 109
actgggatta caggcatgaa ccaccatacc cagccca 37

<210> 110
<211> 824
<212> DNA
<213> Homo sapien

<400> 110
gctttcgagc ggccgcccgg gcaggtacaa gctattatta tatatatata tatatatata 60

tatatatata tatatatata gagatatata tatatatata tatatatata tatatatatt 120

atatatatta ttattatttt tattattttt ttattattat atttaactct atttattata 180

tcaatacaat attattatat atatattatt catctttcca tgcggccaca cccaacaaaa 240

cccgaccacc aaaagaccta ctaatacata tcacatcata agagaaaaga tacaagaaac 420

cagacaaaca aactagctca taaaccaaac attaaaatac acaaacaaga agaaataaga 480

caacaaaaaa caaataacca aaaaccacac acaaagatag agaaggagga gcgagacaag 540

aacagaaaaa agcacgaaac aagaacacaa cagcgaagaa gagagatgca cggagcagca 600

aacagaacag cagagacgag cgaaagaagg cgggagaacg gaaggcgacg gaaagcagca 660

gcgagagaga gaaaaacaag aagcggacag cgcaacacga agacgcgagc accgggcgcg 720

gacagcaaag gaacaacaag cagaacagct cgccgcggac cacgaggagg aagcagcaac 780

gaagaacgaa aaaacggaaa aggaaggaga gaaaggcggc acag 824

<210> 111
<211> 881
<212> DNA
<213> Homo sapien

<400> 111
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tattatatat atatatatat atatatatat atatatatat atatatatat atattatata 120

tatatatata tatatatata tataatatat atattatatt tcttctcctt ctatctttct 180

cttttattta tataatatta tatgtactaa taatatacac aaacaatatc ctcaaaaaag 240

agagagcaga gacgagagat ggagagggaa cttatccaca ctcacacccg cgcgctccac 300

cacacagagg aacaacaaca gagggcggac gcccgacccc acctctctct ctctcatctg 360

tgaataaacc accacacacc accacacaca gcagcaggag aagagggagg aggaaagaga 420

gagaggagca cagctctgct gcagctgcgc agagaagaag acggcgcgca acatatcaga 480

cgagatgaga gagaagagag aaggggacga gacgagaggc cagaggcagc aaaaagggag 540

acgacacgac gagcgacaac gagacagacg aaagagaagc cggatgagga gcgggaggaa 600

ggacgaccga cagagaagat gatggagcag aacgtccgac gacagaccgc aaacgagcac 660

gcagacaacg caagaacaaa cagaaggccg aaggaaggac agacgaagcg gagagaggac 720

ggcagacggc cgccagaacc aacaaaacag gacagccaac agaagaagcg aacagaaagc 780

gaaagacaag caaaaggcag aagaggagca aagaaagaag gagagaaaag acgaaaaacg 840

acaaggaccg agcagcgaac aaacgagcca agcaaccagc t 881

<210> 112

<400> 112
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catttaccag gaagtggatt aaggacacca tctgcagtcc aacctcctgc agtgcccgct 120

gtcgccagcc cctacctgct agtaaattat aaagtcccac atcacggttc tggcagtcac 180

ttggacttat actaggatgc taggacacca tgaagacttg gaactacacc tggaccgaag 240

ctacgagtcc tacctgagta cctactgacc tgctgtcttt catggtgtga gagtccaggg 300

cgtgctagcg aaacatggaa gtggcgcacg acacagcgtg tatgccaact gtcttctgaa 360

actgggtata acctttcggt cctcgtcctg tcggaacacg tggactgtca tctgacagac 420

ttctcgcgtc aggttatcac gtgaggacac acgacaacag acgctgggtg taccagtgtt 480

gtatacgtgc gggatgcagg agaatgggag ggcgtggcgg cccaacccat ggcaagagtg 540

gacatgttga ttcactaagg tggaacacgt cgtctacagg atcacgtgag cgcatacggc 600

tcggaggcca caagtgcagt ggaggcacac acacagcagc gaaggcatga cgcttgtacc 660

acagtaggcc caaaggctgg tcctgggggg cacactggga gaagcctaag aataaaggcc 720

gtgaggcacg aaagaagaag gggagaggag tcctcctaat gttgttgaaa ggagagggag 780

actaaggggg agagaaaact gaaaagctga attaaattaa cacaggagag gtttgttcaa 840

ggtcccccta taaccaccgt cagattttga ttgattgtcc ctagcaggaa ctctacagaa 900

gatacagagc tatcatggct gtgggttaaa aaaaaaacaa aaaaaaaaaa aaaaagcttg 960

tacctcgccg cgaccacgct aagccgaatt ccagcacatg cggccgtaca agtgatgcca 1020

agctcggacc cactg 1035

<210> 113
<211> 44
<212> PRT
<213> Homo sapien

<400> 113

Met Lys Val Val Thr Gln Thr Met Glu Pro Asn Lys Ser Asn Arg Thr
1 5 10 15

Asp Lys Glu Lys Ala Gln Glu Thr Gly Pro Gln Leu Val Glu Lys Leu
20 25 30

Asp His Lys Thr Arg Thr Ile Ser Phe Arg Lys Arg
35 40

<212> PRT
<213> Homo sapien

<400> 114

Met Ala Pro Cys Ile Gln Asp Ile Ile Pro Lys Gln Thr Leu Leu Ile
1 5 10 15

Lys Thr Ser Lys Ile Ile Ser Pro Val Tyr Val Pro Phe Lys Val Arg
20 25 30

Gln Val Cys Phe Asn Arg Gln Ala Gly Cys Leu Leu Tyr Phe Tyr Arg
35 40 45

Gly Lys Thr Ile Ile Ile Phe Asn Glu Trp Asn Gly Lys
50 55 60

<210> 115
<211> 134
<212> PRT
<213> Homo sapien

<400> 115

Met Cys Glu Asn Pro Phe Leu Leu Tyr Leu Tyr Ser Ile Leu Leu Gly
1 5 10 15

Tyr Ile Phe Ser Gln Ser Ser Pro Thr Ile Ile Phe Tyr His Asn Val
20 25 30

Cys Ala Pro Lys His Leu Cys Val Cys Leu His His Phe Ile Asp Ser
35 40 45

Ser Ser Leu Arg Leu Leu Arg Glu Leu Thr Phe Cys Gly Ser Leu Cys
50 55 60

Tyr Lys His Asn Met Leu Phe Ala Arg Arg Gly Ser Leu His Val Gly
65 70 75 80

Leu Leu Ser Ser Ser Arg Asn Leu Leu Leu Val Ile Ser Ser Ser Ile
85 90 95

Leu Leu Ala Cys Tyr Thr Pro Leu Leu Cys Leu Gln Ile Phe Phe Phe
100 105 110

Phe Val Asp Pro Asn Leu
130

<210> 116
<211> 35
<212> PRT
<213> Homo sapien

<400> 116

Met Ala Leu Leu Pro Leu Ala Leu Gln Phe Phe Tyr His Leu Ile Pro
1 5 10 15

Leu Leu Phe Leu Val His His Leu Lys Asn Thr Phe Phe Arg Ser Phe
20 25 30

Tyr Arg Pro
35

<210> 117
<211> 48
<212> PRT
<213> Homo sapien

<400> 117

Met Gly Arg Phe Gln His Leu Ala Pro Asn Pro His Leu Ser Gln Ala
1 5 10 15

Pro Ser Thr Cys Ala Pro Thr Ala Tyr Ile Thr Asp Ser Leu Leu Pro
20 25 30

Leu Gly Glu Ala Ser Cys His Leu Ser Glu His Gln Cys Pro His Leu
35 40 45

<210> 118
<211> 87
<212> PRT
<213> Homo sapien

<400> 118

Met Pro Lys Ala Pro Phe Gly Glu Phe His Ile Lys Glu Val Thr Asn
1 5 10 15

Leu Cys Ser Glu Arg Ile Leu Glu Val Ser Met Cys Arg Ser Val Thr

35 40 45

Phe Phe Trp Leu Leu Val Ser Gln Asp Lys Cys Val Val Leu Gln Asn
50 55 60

Arg Asn Glu Met Arg Met Lys Val Phe Cys Val Phe Phe Asn Val Ile
65 70 75 80

Lys Glu Arg Ser Leu His Lys
85

<210> 119
<211> 35
<212> PRT
<213> Homo sapien

<400> 119

Met Asp Leu Ser Leu Cys Cys Pro Gly Gln Phe Leu Lys Pro Leu Trp
1 5 10 15

Pro Gln Ala Thr Leu Leu Tyr Leu Gln Pro Ser Gln Ser Trp Leu Gly
20 25 30

Leu Gln Val
35

<210> 120
<211> 51
<212> PRT
<213> Homo sapien

<400> 120

Met Ala Arg Asn Gly Val Gln Met Ile Thr Ser Asn Gly Lys Lys His
1 5 10 15

His Phe Ser Asp Trp Pro Phe Leu Tyr Asn Ser Glu Leu Thr Leu Thr
20 25 30

Trp Leu Pro Val Lys Tyr Lys Gln Leu Asp Ile Cys Val Pro Pro Lys
35 40 45

Phe Val Cys
50

<212> PRT
<213> Homo sapien

<400> 121

Met Val Ile Lys Lys Val Asn Ser Arg Lys Ile Lys Pro Leu Tyr Leu
1 5 10 15

Arg Glu Asn Gln Trp Asp Cys Phe Glu Asp Thr Glu Cys Lys Ser Leu
20 25 30

<210> 122
<211> 83
<212> PRT
<213> Homo sapien

<400> 122

Met Lys Ser Cys Phe Phe Leu Leu Met Thr Ala Gly Ser Thr Leu Met
1 5 10 15

Pro Pro Phe Ser Phe Met Ile Pro Phe Val Cys Ala Ala Ser Cys Ser
20 25 30

Leu Phe Phe Arg Tyr Ser Val Ser Pro Glu Val Cys Leu Arg Ser Ser
35 40 45

Lys Thr Gln Leu Leu Ala Phe Leu Met Phe Ser Val Ser Cys Phe Met
50 55 60

Lys Ala Cys Phe Thr Ile Ser Ser Val Phe Asn Cys Ala Ile Leu Phe
65 70 75 80

Leu Ile Ile

<210> 123
<211> 39
<212> PRT
<213> Homo sapien

<400> 123

Met Phe Ser Pro Glu Phe Leu Val Leu Glu Leu Leu Phe Gln Thr His
1 5 10 15

Ser Asn Leu Gln Ala Thr Val
35

<210> 124
<211> 41
<212> PRT
<213> Homo sapien

<400> 124

Met Val Ser Ile Ile Ile Val Ser Asn Asn Tyr Lys Ile Val Ala Ser
1 5 10 15

Lys His Ile Leu Leu Tyr Ser Ile Ile Asn Arg Tyr Lys Lys Pro Thr
20 25 30

Pro Thr Thr His Leu Tyr Ser Gln Gln
35 40

<210> 125
<211> 61
<212> PRT
<213> Homo sapien

<400> 125

Met Ser Ile Phe Cys Leu Leu Val Gln Ser Asn Ser Arg Asn Cys Gly
1 5 10 15

Asp Ile Lys Lys Cys Phe Leu Glu Arg Lys Asn Asn Leu Gly Ile Phe
20 25 30

Ser Phe Phe Cys Cys Cys Arg Ile Leu Ser Ser Tyr Cys Ile Met Val
35 40 45

Thr Leu Trp His Ser Val Val Phe Val Gly Leu Tyr Asn
50 55 60

<210> 126
<211> 25
<212> PRT
<213> Homo sapien

<400> 126

Met Leu Phe Ser Glu Asn Trp Leu Ala Phe Phe Phe Phe Leu Phe Phe
1 5 10 15

<210> 127
<211> 66
<212> PRT
<213> Homo sapien

<400> 127

Leu Phe Phe Phe Phe Phe Glu Met Glu Ser Cys Ser Val Ala Arg Leu
1 5 10 15

Glu Cys Asn Gly Met Ile Ser Ala His Cys Asn Leu His Leu Pro Gly
20 25 30

Ser Ser Asp Ser Pro Ala Ser Ala Ser Ala Val Ala Gly Thr Thr Gly
35 40 45

Val Cys His His Ala Gln Leu Ile Phe Val Ile Leu Val Glu Met Gly
50 55 60

Phe His
65

<210> 128
<211> 58
<212> PRT
<213> Homo sapien

<400> 128

Met Asn Asn Leu Arg Gln Lys Glu Glu Tyr Asn Thr Phe Ser Ile Phe
1 5 10 15

Ser Ser Ser Asn Phe Gly Lys Tyr Gln Asp Phe Ala Thr Leu Leu Leu
20 25 30

Phe Leu Phe Leu Ser Phe Pro Ser Leu Pro Phe His Leu Gly Arg Pro
35 40 45

His Val Ser Arg Ile Ala Ala His Cys Ala
50 55

<210> 129
<211> 50
<212> PRT
<213> Homo sapien

Met Ile Arg Arg Gly Val His Cys Ile Phe Thr Gly Arg Ala Val Leu
1 5 10 15

Gln Ala Tyr Ser Ser Ile Phe Ser Ser Val Phe His Asn Phe Ile Cys
20 25 30

Arg Gly Leu Ile Thr Ser Leu Phe Gln Tyr Ile Pro Arg Val Tyr Tyr
35 40 45

Ile Ile
50

<210> 130
<211> 22
<212> PRT
<213> Homo sapien

<400> 130

Met Phe Lys Phe Met Ser Tyr Ile Asn Thr Lys Lys Ile Leu Phe Leu
1 5 10 15

Leu Glu Thr Gly Arg His
20

<210> 131
<211> 22
<212> PRT
<213> Homo sapien

<400> 131

Met Gln Asn Lys Arg Phe His Arg Arg Thr Ser Ser Ala Gln Lys Phe
1 5 10 15

Thr Ile Val Pro Thr Leu
20

<210> 132
<211> 56
<212> PRT
<213> Homo sapien

<400> 132

Met Ala Lys Gly Lys Ala His Arg Ser Ile Glu Gln Asn Arg Glu His
1 5 10 15

Ile Ile Gln Lys Lys Lys Ile Ser Leu Ser Asn Lys Trp Cys Leu Pro
35 40 45

Ile Trp Pro Ser Met Cys Lys Thr
50 55

<210> 133
<211> 27
<212> PRT
<213> Homo sapien

<400> 133

Met Glu Glu Trp Thr Gly Leu Gly Lys Tyr Val Lys Ile Ala Ser Ser
1 5 10 15

Ser Glu Gly Pro Leu Asn Asp Phe Asp Leu Lys
20 25

<210> 134
<211> 49
<212> PRT
<213> Homo sapien

<400> 134

Met Pro Asp Leu Glu Val Ser Ser Met Thr Leu Ile Met Pro Cys Thr
1 5 10 15

Leu Val Gly Glu Lys Ser Gln Ile Ser Lys Lys Glu Pro Tyr Val Arg
20 25 30

Asn Leu Tyr Trp Lys Thr Asn Asn Leu Thr Leu Val Glu Trp Gly Asn
35 40 45

Thr

<210> 135
<211> 57
<212> PRT
<213> Homo sapien

<400> 135

Pro Ala Pro Cys Phe Thr Cys Leu Phe Leu Gly Val Trp Cys Pro Val
20 25 30

Ala Leu Ala Ser Cys Leu Ser Pro Ser Pro Cys Ile Tyr Ser Thr Phe
35 40 45

Leu Pro Thr Val Ser Lys Tyr Phe Phe
50 55

<210> 136
<211> 24
<212> PRT
<213> Homo sapien

<400> 136

Met Leu Arg Val Pro Leu Ile Ile Gln Met Asn Ala Val Ile Cys Asn
1 5 10 15

Asn Lys Ser Asn Ala Ile Thr Gln
20

<210> 137
<211> 33
<212> PRT
<213> Homo sapien

<400> 137

Met Pro Ile Val Pro Ala Arg Ala Pro Leu Glu Ile Pro Ala His Cys
1 5 10 15

Ala Val Tyr Arg Ser Glu Leu Val His Ser Cys Thr Ser Arg Pro Arg
20 25 30

Leu

<210> 138
<211> 46
<212> PRT
<213> Homo sapien

<400> 138

Met Ala Lys Phe Pro Gly Phe Lys Gly Gln Leu His Tyr Ile His Lys
1 5 10 15

Leu Pro Gly Arg Arg Ser Lys Pro Glu Cys Gln His Met Ala
35 40 45

<210> 139
<211> 78
<212> PRT
<213> Homo sapien

<400> 139

Met Leu Lys Thr Ser Ser Ile Leu Glu Leu Ile Lys Ser Leu Arg Tyr
1 5 10 15

Leu His Tyr Phe Tyr Lys Ile Ser Cys Ala Val Leu Asn Phe Arg Val
20 25 30

Val Lys Lys Ile Gly Thr Arg Val Thr Lys Lys Pro Asp Leu Asn Pro
35 40 45

Gly Leu Ser Leu Ile Ser Tyr Arg Gln Val Ile Asn Leu Ser Leu Leu
50 55 60

Gly Leu Ser Val Ser Glu Ser His Phe Ser Asn Val Ile Lys
65 70 75

<210> 140
<211> 142
<212> PRT
<213> Homo sapien

<400> 140

Met Lys Leu His Leu Asn Met His Ser Thr Lys His Pro Leu Ile Ser
1 5 10 15

Asn Gly His Pro Ser Val Val Ala Asn Ile Ile Ile Ala Ala Thr His
20 25 30

Ser Lys Ala His Cys Ser Asn Thr His Glu Ala Ile Ile Thr Cys Ala
35 40 45

Phe Ser Ala Asn Thr Ala Ser Pro Lys Ser Pro Ile Ala Asn Asn His
50 55 60

Thr Ser Tyr Thr Val Ser Ala Ser Cys Met Ser Ser Ile His Val Gly
85 90 95

Gln Trp Phe Ile Thr Phe Ser Tyr Gln Pro Ile Asp Leu Pro Thr Thr
100 105 110

Gln Lys Ser Lys Pro His Lys Asn Trp Gly Val Tyr Ile Ile Pro Leu
115 120 125

Arg Pro Lys Thr Lys Cys Thr Leu Val Pro His His Ile Ala
130 135 140

<210> 141
<211> 45
<212> PRT
<213> Homo sapien

<400> 141

Met Ala Gln His Met Ala Leu Thr Phe Cys Gln Cys Ser Ala Val Tyr
1 5 10 15

Tyr Glu Arg Asn Asn Glu Phe His Ser Leu Leu Gly Thr Cys Pro Ser
20 25 30

Leu Asn Thr His Gly Thr Val Lys Pro Arg Ser Thr Ala
35 40 45

<210> 142
<211> 30
<212> PRT
<213> Homo sapien

<400> 142

Met Asn Gln Ala Asn Leu Thr Val Leu Gln Asn Trp Gly Tyr Tyr Asn
1 5 10 15

Tyr Leu Gln Leu Leu Cys Thr Trp Gln Cys Asn Gly Leu His
20 25 30

<210> 143
<211> 50
<212> PRT
<213> Homo sapien

1 5 10 15

Ser Leu Tyr Arg Lys Arg Val Ala Gln Ala Ser Val Asn Ile Ser Cys
20 25 30

Thr Ser Ser Asp Pro Pro Thr Ser Val Ala Pro Lys Val Leu Arg Leu
35 40 45

Gln Ala
50

<210> 144
<211> 72
<212> PRT
<213> Homo sapien

<400> 144

Met Lys Asp Asn Met Gln Arg Lys Thr Gln Arg Glu Lys Arg Lys Glu
1 5 10 15

Thr Lys Val Lys Ile Ala Ser Trp Arg Leu Thr Thr Met Gln Trp Ser
20 25 30

Gln Lys Arg Asn Asn Ser Lys Ile His Thr Ala Leu Gln Cys Lys Trp
35 40 45

Gln His Val Gln Thr Asn Glu Arg Lys Leu Pro Lys Lys Arg Glu Asp
50 55 60

Asp Lys Lys Ala Gln Lys Lys Gln
65 70

<210> 145
<211> 64
<212> PRT
<213> Homo sapien

<400> 145

Met His Ser Thr Gly Ala Asp Pro Lys Lys Pro Ser Gln Gly Tyr Thr
1 5 10 15

Asp Leu Asn Arg Tyr Phe Ile Cys Cys Leu Pro Gln Arg Lys Lys Ser
20 25 30

Gln Thr Cys Pro Ala Pro Leu Glu Thr Arg Leu Pro Ala His Cys Ala
50 55 60

<210> 146
<211> 61
<212> PRT
<213> Homo sapien

<400> 146

Met Tyr Val Lys Asn Lys Pro Tyr Leu Arg Lys His Ile Leu Ile Ile
1 5 10 15

Leu Leu Ile Trp Arg Ser Tyr Leu Ser Asn Pro Thr Leu Glu Pro Arg
20 25 30

Arg Glu Ser Gly Ser Lys Gln Lys Ser Asn Arg Thr Thr Lys Val Tyr
35 40 45

Thr Arg Val Gln Thr Leu Gly Leu Ile Cys Ser Asp Leu
50 55 60

<210> 147
<211> 34
<212> PRT
<213> Homo sapien

<400> 147

Met Lys Thr Asp Ser Glu His Ser Ile Leu Leu Asn Lys Asn Lys Cys
1 5 10 15

Ser Lys Lys Ser Arg Tyr Cys Cys Trp Arg Tyr Leu Gln Asn Val Asn
20 25 30

Arg Gln

<210> 148
<211> 46
<212> PRT
<213> Homo sapien

<400> 148

Ile Cys Leu Asp Ser Phe His Ser Ile Leu Val Arg Thr Phe Ile Lys
20 25 30

Met Asn Lys Asn Ile Gln Thr Leu Lys Val Thr Leu Glu His
35 40 45

<210> 149
<211> 71
<212> PRT
<213> Homo sapien

<400> 149

Met Val Ser Arg Leu Ser Leu Lys Val Ile Tyr Tyr Ser Ala Ile Leu
1 5 10 15

Val Ile Gln Phe Thr Asn Ile Leu Lys Ile Phe Cys Ala Met Val Phe
20 25 30

Ala Val Ser Gln Leu Asp Pro Ser Leu Tyr Thr Phe Leu Thr Val Tyr
35 40 45

Leu Ser Thr Met Ile Thr Arg Lys Leu Thr Arg Tyr Gly Leu Gln Leu
50 55 60

Phe Ser Ala Ser Ser Phe Gly
65 70

<210> 150
<211> 70
<212> PRT
<213> Homo sapien

<400> 150

Met His Ser Met Leu Cys Pro Phe Gly Ser Ser Phe Arg Leu Ala Leu
1 5 10 15

Trp Ser Pro Phe Asp Asp Asn Pro His His Cys Gly Ser Ser Leu Cys
20 25 30

Val Glu Gln Leu Ser Asp Ala Ser Glu Tyr Ile Pro Gln Ile Leu Trp
35 40 45

Cys Ser Asn Asn Leu Phe Tyr Thr Ile Arg Gln Leu Tyr Thr Phe Tyr

65 70

<210> 151
<211> 71
<212> PRT
<213> Homo sapien

<400> 151

Met Cys Ile Ile Ser Val Glu Lys Gly Ile Ala Gln Trp Arg Lys Ser
1 5 10 15

Thr Pro Leu Ile His Gly Thr Leu Thr Gln Leu Gly Lys Glu Arg Glu
20 25 30

Leu Phe Pro Lys Glu Lys Gly His Pro Pro Lys Gly Lys Lys Lys Lys
35 40 45

Lys Leu Gln Thr Gly Glu Glu Tyr Pro Val Asn Asn Pro His Ser Cys
50 55 60

Thr Tyr Phe Lys Asp Glu Tyr
65 70

<210> 152
<211> 43
<212> PRT
<213> Homo sapien

<400> 152

Met Phe Leu Leu Ile Phe Cys Leu Leu Asp Leu Phe Ile Ser Asp Arg
1 5 10 15

Gly Val Leu Ser Asn Cys Thr Met Pro Asn Pro Asn Ser Ser Thr Leu
20 25 30

Arg Arg Tyr Lys Trp Ser Glu Leu Asp Pro Thr
35 40

<210> 153
<211> 22
<212> PRT
<213> Homo sapien

<400> 153

Asn Cys Gly Asn Ser Ile
20

<210> 154
<211> 57
<212> PRT
<213> Homo sapien

<400> 154

Met Phe Tyr Gly Ile Leu Met Val Thr Arg Lys Gln Lys Lys Lys Lys
1 5 10 15

Lys Lys Arg Gly Ile Leu Ala Glu Lys Phe Asn Leu Gly Ile Pro Gly
20 25 30

Leu Ser Pro Lys Glu Asn Ser Pro His Leu Gln Arg Lys Thr Asp Arg
35 40 45

Glu Glu Glu Arg Ala His Trp Cys Ser
50 55

<210> 155
<211> 28
<212> PRT
<213> Homo sapien

<400> 155

Met Lys Lys Lys Lys Lys Ser Arg Ala Tyr Lys Val Pro Thr Asp Phe
1 5 10 15

Pro Val Ile Trp Asp Thr Asp Gly Glu Ser Ser Asp
20 25

<210> 156
<211> 18
<212> PRT
<213> Homo sapien

<400> 156

Met Ser Ser Tyr Arg Arg Thr Gly Phe Ser Leu Leu Phe Ile Phe Ser
1 5 10 15

His Phe

<211> 45
<212> PRT
<213> Homo sapien

<400> 157

Met Lys Thr Tyr Thr Val Gly Gly Lys Ala Leu Ala Gly Arg Asn Ser
1 5 10 15

Glu Trp Arg Pro Lys Ile Ala Gln Arg Glu Phe Leu Pro Ile Leu Ala
20 25 30

Thr Leu Thr Phe Leu Cys His Leu Ser Arg Ile Gln Trp
35 40 45

<210> 158
<211> 38
<212> PRT
<213> Homo sapien

<400> 158

Met Lys Val Pro Ile Asp Leu Gly Tyr Phe Lys Val Gly Asn Glu Lys
1 5 10 15

Glu Gly Arg Arg Thr Phe Arg Gln Ser Arg Gly Lys Val Tyr Leu Leu
20 25 30

Pro Asn Leu Pro Gln Asn
35

<210> 159
<211> 60
<212> PRT
<213> Homo sapien

<400> 159

Met Arg Glu Ala Phe Asp Ser Val Ile Val Val Leu Cys Ile Ile Tyr
1 5 10 15

Arg Leu Gly Gln Val Gln Ser Pro Glu Ser Val Leu Ser Ser Asn Ala
20 25 30

Tyr Thr Gly Cys Ala Gln Ala His Pro Val Lys Ser Phe Cys Ser Thr
35 40 45

<210> 160
<211> 63
<212> PRT
<213> Homo sapien

<400> 160

Met Asp Ile Lys Ser Lys Ala Ile Gln Ser Glu Lys Lys Val Ile Ile
1 5 10 15

Ile Met Met Lys Gly Ser Ile Asn Ser Arg Arg Leu Leu Phe Phe Ile
20 25 30

His Pro Ile Ile Arg Ala Leu Lys Tyr Val Asn Gln Ile Leu Val Ser
35 40 45

Arg Ile Gly Ser Thr Leu Arg Pro Tyr Ser Asp Ala Ser Ser Leu
50 55 60

<210> 161
<211> 87
<212> PRT
<213> Homo sapien

<400> 161

Met Pro Ile Cys Leu Lys Thr Cys Pro Gln Glu Leu Leu Phe Glu Cys
1 5 10 15

Ser Leu Ile Phe Phe Phe Val Thr Leu Pro Ser Phe Leu Pro Ser Phe
20 25 30

Leu Pro Ser Phe Leu Leu Cys Pro Ser Phe Ser Pro Ala Phe Phe Leu
35 40 45

Phe Val Arg Pro Glu Ser Cys Ser Val Ala Gln Ala Gly Val Trp Trp
50 55 60

His Asp Ile Ser Ser Leu Gln His Pro Pro Pro Lys Pro Asp Ser Ala
65 70 75 80

Glu His Ile Thr Ser Ala Pro
85

<400> 162

Met Leu Gly Gly Ser Lys Thr Trp Asp Phe Gln Phe Phe Ser Leu Lys
1 5 10 15

Arg Ser Leu Pro Pro Asp Leu Arg Ala Val Gly Pro Arg Arg Ala Pro
20 25 30

Asn Leu Cys Ser Cys Ser Leu Glu Thr Ser Glu Arg His Val Leu
35 40 45

<210> 163
<211> 38
<212> PRT
<213> Homo sapien

<400> 163

Met Arg Thr Asp Val Ile Gly Thr Thr Leu Asp Ala Arg Asp Ser Arg
1 5 10 15

Thr Ser Lys Thr Gln Pro Phe Pro Leu Gly Lys Leu Thr Val Leu Gly
20 25 30

Glu Gln Leu Pro Ser Trp
35

<210> 164
<211> 61
<212> PRT
<213> Homo sapien

<400> 164

Met Phe Thr Ala Leu Lys Phe Pro Leu Asn Pro Ala Leu Ala Val Leu
1 5 10 15

Leu Tyr Val Leu Val Met Leu Tyr Phe Cys Phe Gln Phe Ile Val Lys
20 25 30

Pro Phe Ser Asn Phe Pro Phe Asp Phe Gly Val Tyr Ser Leu Ile Ser
35 40 45

Thr Tyr Leu Trp Ile Phe His Lys Phe Leu Tyr Gly Tyr
50 55 60

<212> PRT
<213> Homo sapien

<400> 165

Met Met Tyr Pro Phe Val Ala Ser Gly Leu Leu Ile Ser His Thr Thr
1 5 10 15

Phe Glu Ile Ala Val Tyr Phe Ser His Leu Asp Leu Leu Ile Phe Ala
20 25 30

Leu Cys Ile Leu Gly Ala Leu Met Phe Ser Ala Cys Ile Leu Thr Val
35 40 45

Val Ile Leu Ser
50

<210> 166
<211> 49
<212> PRT
<213> Homo sapien

<400> 166

Met Leu Thr Ala Cys Leu Leu Tyr His Leu Cys Ile Leu Thr Val Lys
1 5 10 15

Asn Asn Phe Ile Cys Leu Cys Thr Leu Cys Thr Ala Val Cys Arg Ser
20 25 30

Asp Val Cys Ser Ala Phe Ser Leu Val Tyr Phe Leu Trp Leu Tyr Leu
35 40 45

Ile

<210> 167
<211> 70
<212> PRT
<213> Homo sapien

<400> 167

Met His Leu Gln Ile Met Ile Val Phe Phe Ser Leu Gln Leu Ile Lys
1 5 10 15

Leu Asn Tyr Ala Gly Thr His Asn Thr Gly Asp Arg Ser Thr Met Asn
35 40 45

Arg Lys Ser Asn Arg Ser Tyr Val Val Val Tyr Leu Leu Leu Phe Val
50 55 60

Ser Cys Cys Phe Val Val
65 70

<210> 168
<211> 29
<212> PRT
<213> Homo sapien

<400> 168

Met Glu Arg His Asn Phe Asn Lys Leu Gly Lys Asn Trp Ser Trp Phe
1 5 10 15

Phe Leu Lys Arg Asp Lys Gln Asn Gln Gln Thr Leu Ser
20 25

<210> 169
<211> 341
<212> PRT
<213> Homo sapien

<400> 169

Gly Phe Ser Ala Lys Gly Ile Asn Lys Ile Asn Lys Pro Leu Ala Glu
1 5 10 15

Leu Arg Lys Lys Arg Glu Leu Lys Ile Arg Asn Glu Arg Glu Asp Ile
20 25 30

Thr Thr Glu Pro Thr Ile Lys Lys Asn Ile Asn Glu Tyr Tyr Glu Ala
35 40 45

Leu His Ile Asn Glu Leu Asp Asn Leu Glu Glu Met Glu Lys Phe Leu
50 55 60

Thr Ile Tyr Asp Leu Pro Lys Gln Glu Val Thr Glu Asn Leu Asn Lys
65 70 75 80

Pro Ile Thr Ser His Glu Thr Ala Val Arg Ile Lys Lys Leu Pro Val

100 105 110

Phe Lys Glu Glu Leu Ile Pro Ile Leu Leu Lys Leu Phe Gln Lys Ile
115 120 125

Glu Glu Glu Gly Ile Leu Pro Asn Ser Phe Tyr Lys Ala Ser Ile Thr
130 135 140

Leu Ile Pro Lys Pro Asp Lys Asp Thr Ser Lys Ile Ile Lys Lys Ala
145 150 155 160

Asn Tyr Arg Pro Ile Ser Leu Met Asn Thr Asp Ala Lys Ile Leu Asn
165 170 175

Lys Met Leu Ala Asn His Ile Gln Gln Tyr Ile Lys Lys Ile Ile His
180 185 190

His Asp Gln Val Gly Tyr Val Pro Gly Met Gln Gly Trp Phe Asn Ile
195 200 205

Cys Lys Ser Ile Gln Val Ile Gln His Ile Ser Arg Met Lys Asp Lys
210 215 220

Lys His Met Ile Ile Ser Ile Asp Thr Glu Lys Ala Phe Asp Asn Ile
225 230 235 240

Gln His Leu Phe Met Ile Lys Thr Leu Lys Asn Leu Asp Ile Glu Gly
245 250 255

Thr Ala Pro Ala His Asn Glu Ser His Ile Glu Arg Pro Thr Ala Ser
260 265 270

Ala Ile Leu Asn Ala Gly Thr Thr Leu Thr Ala Phe Pro Leu Arg Ser
275 280 285

Gly Asn Met Thr Lys Ile Ser Ile Ser Pro Leu Phe Phe Arg Ile Ala
290 295 300

Leu Glu Val Leu Gly Arg Ala Leu Arg Tyr Gly Glu Arg Ile Thr Gly
305 310 315 320

Ser Tyr Trp Glu Asn
340

<210> 170
<211> 65
<212> PRT
<213> Homo sapien

<400> 170

Met Leu Glu Ile Ser Ala Asp Ile Ile Asn Tyr Pro Arg Arg Val Cys
1 5 10 15

Cys Leu Pro Pro Thr Phe Leu Ser Phe Leu Pro Pro Trp Ala Ser Ala
20 25 30

Ser Asp Ile Tyr Thr Ile Phe Leu Ile Ala Leu Phe Ser Ser Pro Arg
35 40 45

Ala His Tyr Ser Lys Ala Glu Ser Phe Leu Arg Leu Leu Ala Gly Pro
50 55 60

Phe
65

<210> 171
<211> 45
<212> PRT
<213> Homo sapien

<400> 171

Met Phe Thr Lys Gln His Gln Lys Tyr Asn Cys His Pro Val Gln Glu
1 5 10 15

Ile Glu Gly Leu Pro Ala His Lys Ser His Ser Ser Thr Cys Pro Ala
20 25 30

Phe Arg His Tyr Pro Leu Pro Arg Ile Thr Thr Phe Cys
35 40 45

<210> 172
<211> 41
<212> PRT
<213> Homo sapien

Val Leu Tyr Phe Val Leu Ala Gly Leu Leu Ile Met Leu Val Glu Leu
20 25 30

Glu Leu Leu Leu Val Lys Val Ser Phe
35 40

<210> 173
<211> 54
<212> PRT
<213> Homo sapien

<400> 173

Met Phe Val Glu Pro Ser Thr Phe Phe Pro Phe Asp Val Gly Asn Ser
1 5 10 15

Ile Lys Gln Gln Glu Lys Ser Val Asp Arg Phe Leu Ser Leu Ser Leu
20 25 30

Ser Leu Ser Val Ser Leu Pro Phe Lys Ile Cys Thr Phe Gln Leu Val
35 40 45

Phe Gly Pro Leu Gly Ser
50

<210> 174
<211> 23
<212> PRT
<213> Homo sapien

<400> 174

Met His Gln Thr Ala Glu His Pro Asn Thr Leu Arg Gln Thr Leu Ile
1 5 10 15

Glu Leu Glu Glu Glu Leu Asp
20

<210> 175
<211> 53
<212> PRT
<213> Homo sapien

<400> 175

Arg Ala Lys Ile Tyr Leu Glu Lys Val Gly Gln Glu Phe Pro Thr Leu
20 25 30

Arg Thr Leu Ile Ser Pro Ser Lys Ile Lys Thr Leu Phe Gly Ser Thr
35 40 45

His Phe Thr Thr Gln
50

<210> 176
<211> 69
<212> PRT
<213> Homo sapien

<400> 176

Met Gly Gln Ala Phe His Leu Phe Phe Gln Lys Cys Leu Leu Tyr Met
1 5 10 15

Ile Leu Ile Tyr Tyr Ser Lys Asn Leu Val Ala Thr Leu Phe Ala Gln
20 25 30

Lys Gly Ile Phe Phe Arg Leu Ser Leu Ser Gln Lys Phe Pro Glu Leu
35 40 45

Ile Ser Glu Ile Cys Leu Leu Val Leu Phe Lys Gly Pro Met Phe Ala
50 55 60

Thr Ser Val Leu Cys
65

<210> 177
<211> 47
<212> PRT
<213> Homo sapien

<400> 177

Met Thr Val Leu Ala Asn Gly Leu Thr Glu Tyr Ile Ile Leu Arg Lys
1 5 10 15

Glu Pro Gln Ser Lys Val Ile Asp Trp Leu Phe Lys Glu Gly Asn Tyr
20 25 30

Arg Gln Ala Ala Arg Trp Leu Glu Thr Cys Leu Leu Arg Arg Tyr

<211> 69
<212> PRT
<213> Homo sapien

<400> 178

Met Val Glu Leu Ala Pro Cys Thr Ala Ala Asp Val Leu Ala Phe Gly
1 5 10 15

Phe Arg Ala Ala Pro Gly Gln Val Leu Met Lys Met Phe Tyr Asn Cys
20 25 30

Ile Tyr Gly Leu Lys Trp Leu Lys Gln His His Arg Phe Phe His Ile
35 40 45

Cys Val Val Cys Glu Thr Asp Ala Ser Leu Gly Ile Asn Thr Gln Glu
50 55 60

Lys Asp His Thr Ile
65

<210> 179
<211> 80
<212> PRT
<213> Homo sapien

<400> 179

Met Cys Glu Phe Asp Pro Val Ile Met Met Leu Ala Gly Tyr Ser Glu
1 5 10 15

Pro Ile Gly Ala Thr Met Ala Gln Val Thr Gln Cys Gln Glu Val Pro
20 25 30

Glu Lys Val His Ala Trp Gln Ser Glu Tyr Ser Leu Val Ser Tyr Ile
35 40 45

Leu Gly Arg Gln Glu Leu Trp Val Asn Thr Leu Val Ser Pro Gln Lys
50 55 60

Val Gly Tyr Leu Glu Arg Gly Glu Ile Met Arg Lys Glu Ile Tyr Val
65 70 75 80

<210> 180
<211> 38

Met Tyr Phe Ser Leu Val Ser Ser Pro Thr Met Val Phe Gly Trp Leu
1 5 10 15

Ser Leu Ile Ser Tyr Thr Trp Lys Arg Arg Val Met Gly Phe Glu Thr
20 25 30

Phe Phe Lys Lys Ile Val
35

<210> 181
<211> 58
<212> PRT
<213> Homo sapien

<400> 181

Met Asn Ile Asn Thr Leu Thr Phe Ile Thr Thr Val Trp Phe Ser Gln
1 5 10 15

Leu Tyr Leu Leu Asp Ile Thr Tyr Ser Leu Asp Ala Phe Phe Thr Ser
20 25 30

Asp Leu Pro Ile Leu Phe Val Ile Thr Cys Lys Asn Phe Val Gly Phe
35 40 45

Ile Phe Ile Ser His Ser Phe Leu Gln Ala
50 55

<210> 182
<211> 36
<212> PRT
<213> Homo sapien

<400> 182

Met Cys Ser Asn Gly Ala Ala Glu Val Ile Tyr Cys Phe Leu Gln Tyr
1 5 10 15

Cys Ser Leu Glu Val Ala Arg Ile Leu Phe Ile Leu Leu Phe Val Ser
20 25 30

Ser Phe Leu Tyr
35

<400> 183

Met Gly Ser Cys Tyr Val Ala Gln Cys Val Leu Glu Thr Pro Gly Phe
1 5 10 15

Lys Pro Ser Ser Pro His Trp Pro Pro Lys Tyr Trp Asp Tyr Arg His
20 25 30

Glu Pro Pro Cys Pro Asn Phe Asn Phe Gln Leu Gln Lys Phe Glu Cys
35 40 45

Thr Leu Trp Arg Lys Pro Tyr Leu Ala Ala Thr Thr Leu Ser Arg Ile
50 55 60

Pro Ala His Gly Ala Val Ile Val Met Trp Leu Asp Lys Leu Val Arg
65 70 75 80

Pro Leu

<210> 184
<211> 131
<212> PRT
<213> Homo sapien

<400> 184

Met Thr Pro Ser Arg Ile Gln Gly Glu Asn Ser Ile Phe Phe Phe Phe
1 5 10 15

Asn Leu Arg Thr Gly Phe Phe Thr Ser Cys Ser Pro Ser Ala Trp Ser
20 25 30

Cys Arg Trp Val Leu Ile His Trp Phe Tyr Ser Cys Ser Leu Leu Asn
35 40 45

Phe Leu Cys Tyr Ser Arg Ile Ser Cys Arg Ile Ile Pro Ser His Thr
50 55 60

Trp Arg Ala Arg Ser Arg Ala Ile Val Ile Leu Arg Arg Gly Pro Asn
65 70 75 80

Ser Arg Pro Leu Tyr Ser Val Arg Leu Ala Ile Tyr Asn Ser Pro Leu

100 105 110

Cys Gly Val Tyr His Asn Phe Asn Ser Pro Phe Ala Ser Lys Ile Pro
115 120 125

Pro Phe Leu
130

<210> 185
<211> 60
<212> PRT
<213> Homo sapien

<400> 185

Met Asp Leu Tyr Leu Gly Tyr Pro His Phe Leu Glu Ser Thr Ser Phe
1 5 10 15

Lys Cys Ile Cys Ser Ser Ser Gly Tyr Ile Pro Thr Tyr Met Ala Tyr
20 25 30

Gly Asn Phe Lys Leu Ser Phe Ser Lys Ile Ser Ser Phe Leu Tyr Ser
35 40 45

Ile Cys Thr Leu Leu Val Pro Asn Thr Phe Ile Met
50 55 60

<210> 186
<211> 45
<212> PRT
<213> Homo sapien

<400> 186

Met Met Gly Leu Pro Leu Thr Ile Phe Pro Lys Pro Leu Pro Pro Lys
1 5 10 15

Lys Lys Ser Leu Leu Leu Ile Phe Lys Glu Lys Val Leu Leu Ile Val
20 25 30

Leu Leu Pro Leu Leu Phe Pro Gln Asn Leu Tyr Ala Lys
35 40 45

<210> 187
<211> 105

```
Phe Phe Phe Phe Phe Leu Arg Gln Ser Phe Ala Leu Val Ala His Ser
1               5                   10                  15

Leu Arg Val Pro Ala Ala Arg Phe Leu Ala Leu His Lys Pro Pro Pro
            20                  25                  30

Pro Arg Phe Lys Ala Phe Ser Ser Leu Ser Leu Leu Ser Ser Trp Tyr
        35                  40                  45

Tyr Arg Arg Ala Pro Pro Gly Pro Ala Asn Phe Phe Leu Phe Leu Phe
    50                  55                  60

Phe Val Glu Met Gly Phe Tyr Arg Val Gly Arg Ala Gly Leu Gly Leu
65                  70                  75                  80

Leu Ala Ser Gly Gly Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile
                85                  90                  95

Ala Gly Val Thr Tyr Arg Thr Arg Pro
            100                 105
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<210> 188
<211> 67
<212> PRT
<213> Homo sapien

<400> 188

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Met Val His Thr Gly Leu Phe Pro Leu Tyr Tyr Ile Pro Glu Asn Thr
1               5                   10                  15

Ser Ile Phe Phe Ala Tyr Lys Phe Ile Val Pro Phe Ser Ser Val Pro
            20                  25                  30

Pro Leu Pro Leu Leu His Ser His Leu Glu Thr Ile Thr His Leu Leu
        35                  40                  45

Ala Ile Arg Gly Phe Leu Arg Ile Leu Val Leu Lys Phe Phe Arg Tyr
    50                  55                  60

Leu His Phe
65
```

<213> Homo sapien

<400> 189

Met Lys Glu Ile Gly Gly Gln Glu Pro Asn Thr Lys Asp Pro Thr Thr
1 5 10 15

Pro Trp Gln Pro
20

<210> 190
<211> 54
<212> PRT
<213> Homo sapien

<400> 190

Met Lys Trp Phe Asn Ile Leu Lys Thr Cys Phe Lys Ile Asp Leu Ser
1 5 10 15

Lys Gln Val Trp Gly His Phe Gly Asn Ile Gly Glu Arg Tyr Gly Gly
20 25 30

Ser Pro Ser Gly Val Ile Arg His Arg Lys Gly Arg Pro Cys Ala Thr
35 40 45

Arg Lys Arg Ile Ile Tyr
50

<210> 191
<211> 119
<212> PRT
<213> Homo sapien

<400> 191

Met Val Tyr Ile Met Ile His Met Tyr Asn Ile Lys Cys Asp Met Leu
1 5 10 15

Met Tyr Val Gly Ser Asp Leu Leu His Ile Cys Cys Tyr Leu Leu Ser
20 25 30

Val Cys Cys Pro Cys Ser Leu Phe Leu Phe Leu Ser Phe Thr Tyr Phe
35 40 45

Leu Pro Phe Glu Ser Asn Leu Ile Ile Phe His Phe Pro Phe Ser Phe

65 70 75 80

Asp Ile Ala Ile Cys Ile Tyr Asn Met Lys His Met Thr His Ile Ser
85 90 95

Asn Asp Thr Ile Thr His Ser Pro Ala Ser Gln Ser Thr Ala Gln Pro
100 105 110

Glu Val Gln His Thr Ala Pro
115

<210> 192
<211> 42
<212> PRT
<213> Homo sapien

<400> 192

Met Val Ile Asp His Gly Arg Ala Ala Gln Cys Asp Val Val Ser Ala
1 5 10 15

Glu Ser Gly Leu Leu Val Leu Val Phe Pro His Phe Ile Ile Cys Leu
20 25 30

Gly Ala His Arg Leu Ala Ser Leu Thr Tyr
35 40

<210> 193
<211> 89
<212> PRT
<213> Homo sapien

<400> 193

Met Ser Ser Glu Ser Leu Ser Val Ser Phe Leu His Cys Leu Thr Trp
1 5 10 15

Ile Ser Gly Leu Ile Tyr Ser Arg Leu Ile Leu Phe Leu Pro Ala Pro
20 25 30

Gln Gln His Ile Tyr Thr Gln His Thr His Tyr Ile Leu Tyr Ile Ser
35 40 45

Ile Tyr Ser Thr Pro Ala Val Lys Phe Gln His Gly Ser Gly Ala Thr
50 55 60

Gly Arg Pro Leu Glu Ser Arg Arg Ser
85

<210> 194
<211> 32
<212> PRT
<213> Homo sapien

<400> 194

Met Gln Glu Arg Lys Pro Arg Lys Lys Gly Asn Ser Lys Val Arg Leu
1 5 10 15

Leu Pro Pro Gln Leu Pro Gly Asn Asn Phe Leu Thr Arg Ala Asp Ser
20 25 30

<210> 195
<211> 46
<212> PRT
<213> Homo sapien

<400> 195

Met Leu Leu Ser Tyr Val Gln Ser Phe Tyr Tyr Ser Trp Arg Val Ser
1 5 10 15

Asn Ser Ala Pro Phe Leu Leu Leu Gly Arg Asp Ile Ile Leu Ser Cys
20 25 30

Val Ser Phe Ser Ile Ala His Asn Cys Glu Ala Leu Val Thr Trp Ser
35 40 45

<210> 196
<211> 93
<212> PRT
<213> Homo sapien

<400> 196

Met Val His Leu Leu Gln Asp Thr His Trp Gly Leu Trp Val Pro Lys
1 5 10 15

Glu Gln Asn Ser Tyr Ser Ser Thr Ser Ser Phe Cys Ser Ser His Leu
20 25 30

Val Leu Phe Gly Leu Gly Ile Leu Arg Pro Phe Ser Ser Ser Tyr Ser
50 55 60

Val Ala Leu Tyr Lys Phe Leu Leu Leu Asn Ile Gln Val Gly Tyr Gly
65 70 75 80

Ser Leu Ile Val Gly Pro Gln Pro Phe Leu Leu Asp Leu
85 90

<210> 197
<211> 161
<212> PRT
<213> Homo sapien

<400> 197

Met Val Pro Lys Leu Phe Thr Ser Gln Ile Cys Leu Leu Leu Leu Leu
1 5 10 15

Gly Leu Leu Ala Val Glu Gly Ser Leu His Val Lys Pro Pro Gln Phe
20 25 30

Thr Trp Ala Gln Trp Phe Glu Thr Gln His Ile Asn Met Thr Ser Gln
35 40 45

Gln Cys Thr Asn Ala Met Gln Val Ile Asn Asn Tyr Gln Arg Arg Cys
50 55 60

Lys Asn Gln Asn Thr Phe Leu Leu Thr Thr Phe Ala Asn Val Val Asn
65 70 75 80

Val Cys Gly Asn Pro Asn Met Thr Cys Pro Ser Asn Lys Thr Arg Lys
85 90 95

Asn Cys His His Ser Gly Ser Gln Val Pro Leu Ile His Cys Asn Leu
100 105 110

Thr Thr Pro Ser Pro Gln Asn Ile Ser Asn Cys Arg Tyr Ala Gln Thr
115 120 125

Pro Ala Asn Met Phe Tyr Ile Val Ala Cys Asp Asn Arg Asp Gln Arg
130 135 140

Ile

<210> 198
<211> 88
<212> PRT
<213> Homo sapien

<400> 198

Met Ile Gly Thr Leu Leu Thr Val Trp Leu Arg Ile Thr Ser Trp Arg
1 5 10 15

Cys Met Cys Tyr Leu Ile Leu Ile Asn Phe Leu Leu Arg Arg Arg Cys
20 25 30

Ile Ala Leu Gly Ser Gln Gly Trp Ser Ser Ser Gly Val Ile Leu Ala
35 40 45

His Met Leu Ile Ser Ala Ser Trp Val Gln Ala Ile Ser Pro Ala Ser
50 55 60

Ala Ser Arg Asn Ser Ile Gly Leu Gln Ala Pro Ala Thr Ile Arg Arg
65 70 75 80

Gly Leu Ile Phe Leu Tyr Ser Leu
85

<210> 199
<211> 27
<212> PRT
<213> Homo sapien

<400> 199

Met Gly Leu Asn Glu Leu Ser Ser Lys Trp Gly Arg Lys Ser Lys Glu
1 5 10 15

Trp Asn Leu Leu Asn Gln Val Asn Phe Lys Gln
20 25

<210> 200
<211> 61
<212> PRT
<213> Homo sapien

Ala His Leu Val Tyr Ser Ala Ser Gly Arg Ile Val Ser Gln Tyr Ser
20 25 30

Arg Glu Ile Met Pro Ser Ile Thr Glu Ser Val Arg Val Val Ser Ser
35 40 45

Ala Ile Leu Arg Arg Cys Ala Gln Val Ala Ala Ser Leu
50 55 60

<210> 201
<211> 76
<212> PRT
<213> Homo sapien

<400> 201

Met Lys Gly His Leu Pro Cys Pro Leu Phe Ser Leu Asn Tyr Leu Cys
1 5 10 15

Lys Tyr Phe Leu Thr Val Ile Leu His Pro Thr Lys Ile Lys Phe Ser
20 25 30

Pro Ser Phe Cys Pro Ser Ser Arg Asp Phe Phe Ser Asp Pro Ser Phe
35 40 45

Phe Leu Gln Asn Leu Phe Phe Leu Phe Phe Trp Thr Trp Leu His Glu
50 55 60

Phe Leu Ser Arg Leu Arg Leu Leu Arg Ser Asp Ser
65 70 75

<210> 202
<211> 24
<212> PRT
<213> Homo sapien

<400> 202

Met Tyr Leu Tyr Val Thr Gly Thr Leu Ile Leu Leu Leu Asn Ile Ser
1 5 10 15

Ser Ala Ile Ile Tyr Thr Val Glu
20

<213> Homo sapien

<400> 203

Met Arg Ser Arg Asp Pro Val Asp Asp Val Phe His Leu Ser Glu Ser
1 5 10 15

Thr Cys Pro Leu Leu Pro Trp Val Gly Pro Pro Arg Pro Pro Ile Leu
20 25 30

Leu His Pro Ala Arg Ile Gln His Trp Tyr Thr Gln Arg Leu Leu Ser
35 40 45

Cys Val Leu Thr
50

<210> 204
<211> 44
<212> PRT
<213> Homo sapien

<400> 204

Met Arg Asn Gln Cys Asn Tyr Leu Phe Asn Arg Trp Gly Lys Cys Phe
1 5 10 15

Asn Val Phe Phe Tyr Arg Phe Leu Gln Tyr Cys Val Ile Leu Met Phe
20 25 30

Phe Tyr Ile Arg Val Lys Ser Leu Leu Leu Pro Thr
35 40

<210> 205
<211> 118
<212> PRT
<213> Homo sapien

<400> 205

Met Lys Glu Lys Ala Leu Val Leu Leu Leu Val Leu Gly Ser Phe Phe
1 5 10 15

Phe Cys Ser Cys Phe Phe Phe Leu Phe Val Leu Leu Val Leu Leu Leu
20 25 30

Leu Leu Val Ala Leu Leu Ile Ser Ser Cys Val Leu Phe Leu Cys Leu

50 55 60

Val Leu Ile Leu Phe Ala Leu Ser Ser Phe Phe Leu Ser Leu Leu Pro
65 70 75 80

Val Ala Cys Ser Ser Ser Leu Ser Val Leu Asp Ser Phe Leu Ile His
85 90 95

Ile Pro Phe Phe Tyr Ser Leu His Arg Leu Val Ser Trp Phe Phe Ser
100 105 110

Leu Pro Ser His Val Ser
115

<210> 206
<211> 78
<212> PRT
<213> Homo sapien

<400> 206

Met Asp Cys Ser Thr Lys Val Glu Thr Tyr Gly Tyr Ser Gly His Gly
1 5 10 15

Gly Ile Leu Cys Gln Gly Asp Gln Arg Leu Ala Leu Ser Leu Phe Ser
20 25 30

Leu His Met Thr Ser Arg Leu Ser Val Phe Gln Pro Lys Asp His Gly
35 40 45

Leu Leu Ser Ile Pro Gly Gly Phe Val Pro Phe Gly Lys Arg Ala Ser
50 55 60

Glu Ile Tyr Phe Thr Lys Tyr Ala Lys Asp Cys Asn Asp Leu
65 70 75

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<211> 38
<212> PRT
<213> Homo sapien

<400> 207

Met Gly His Arg Ser Pro Ile Lys Cys Tyr Phe Leu Cys Leu Val Ile
1 5 10 15

Val Phe Phe Cys Asn Cys
35

<210> 208
<211> 25
<212> PRT
<213> Homo sapien

<400> 208

Met Lys Leu Leu Phe Val Cys Val Ser Cys Asn Tyr Phe Val Ile Ile
1 5 10 15

Tyr Leu Phe Lys Gln Arg Ile Val Phe
20 25

<210> 209
<211> 128
<212> PRT
<213> Homo sapien

<400> 209

Met Cys Arg Leu Ser Leu Leu Pro Phe Pro Phe Phe Arg Ser Ser Leu
1 5 10 15

Leu Leu Pro Pro Arg Gly Pro Arg Arg Ala Val Leu Leu Val Val Pro
20 25 30

Leu Leu Ser Ala Pro Gly Ala Arg Val Phe Val Leu Arg Cys Pro Leu
35 40 45

Leu Val Phe Leu Ser Leu Ala Ala Ala Phe Arg Arg Leu Pro Phe Ser
50 55 60

Arg Leu Leu Ser Leu Val Ser Ala Val Leu Phe Ala Ala Pro Cys Ile
65 70 75 80

Ser Leu Leu Arg Cys Cys Val Leu Val Ser Cys Phe Phe Leu Phe Leu
85 90 95

Ser Arg Ser Ser Phe Ser Ile Phe Val Cys Gly Phe Trp Leu Phe Val
100 105 110

<210> 210
<211> 215
<212> PRT
<213> Homo sapien

<400> 210

Met Val Ala Trp Leu Val Cys Ser Leu Leu Gly Pro Cys Arg Phe Ser
1 5 10 15

Ser Phe Leu Ser Phe Phe Leu Cys Ser Ser Ser Ala Phe Cys Leu Ser
20 25 30

Phe Ala Phe Cys Ser Leu Leu Leu Leu Ala Val Leu Phe Cys Trp Phe
35 40 45

Trp Arg Pro Ser Ala Val Leu Ser Pro Leu Arg Leu Ser Phe Leu Arg
50 55 60

Pro Ser Val Cys Ser Cys Val Val Cys Val Leu Val Cys Gly Leu Ser
65 70 75 80

Ser Asp Val Leu Leu His His Leu Leu Cys Arg Ser Ser Phe Leu Pro
85 90 95

Leu Leu Ile Arg Leu Leu Phe Arg Leu Ser Arg Cys Arg Ser Ser Cys
100 105 110

Arg Leu Pro Phe Cys Cys Leu Trp Pro Leu Val Ser Ser Pro Ser Leu
115 120 125

Phe Ser Leu Ile Ser Ser Asp Met Leu Arg Ala Val Phe Phe Ser Ala
130 135 140

Gln Leu Gln Gln Ser Cys Ala Pro Leu Ser Leu Ser Ser Ser Leu Phe
145 150 155 160

Ser Cys Cys Cys Val Trp Trp Cys Val Val Val Tyr Ser Gln Met Arg
165 170 175

Glu Arg Glu Val Gly Ser Gly Val Arg Pro Leu Leu Leu Phe Leu Cys
180 185 190

Ser Ser Leu Leu Ser Leu Phe
210 215

<210> 211
<211> 63
<212> PRT
<213> Homo sapien

<400> 211

Met Cys Leu Ala Ile Arg Val Thr Ser Gly Ala Arg Ala Gly Thr Pro
1 5 10 15

Arg Leu Val His Leu Pro Gly Ser Gly Leu Arg Thr Pro Ser Ala Val
20 25 30

Gln Pro Pro Ala Val Pro Ala Val Ala Ser Pro Tyr Leu Leu Val Asn
35 40 45

Tyr Lys Val Pro His His Gly Ser Gly Ser His Leu Asp Leu Tyr
50 55 60